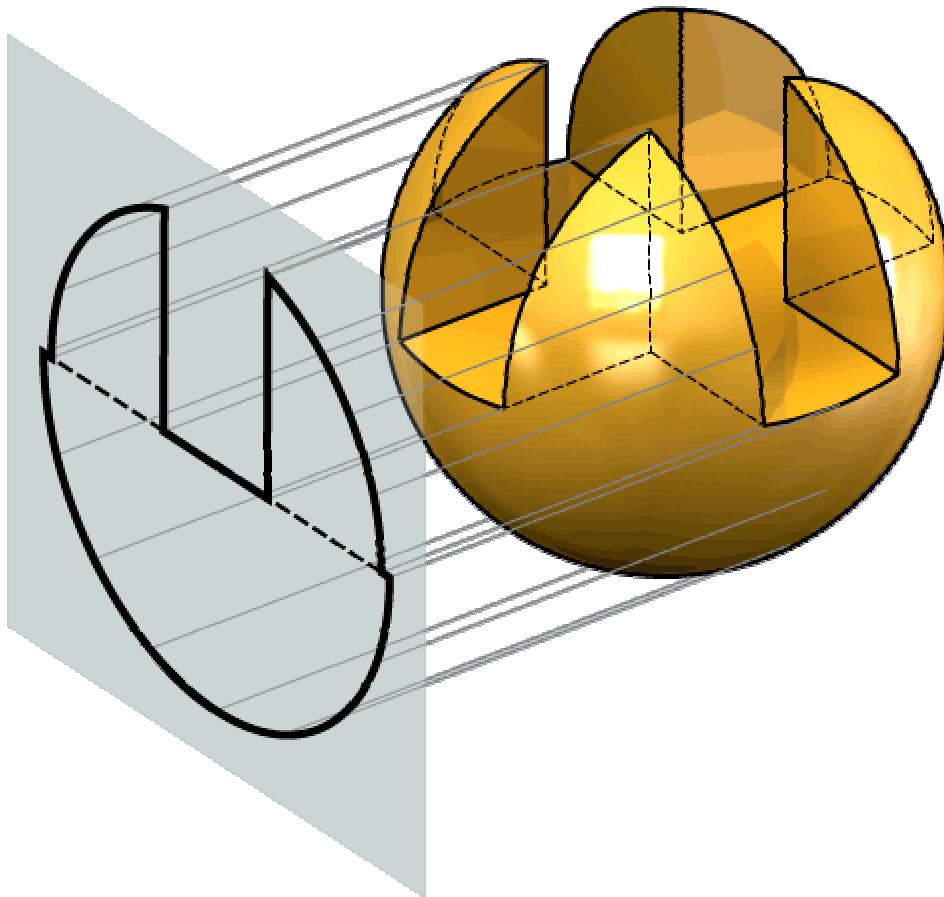


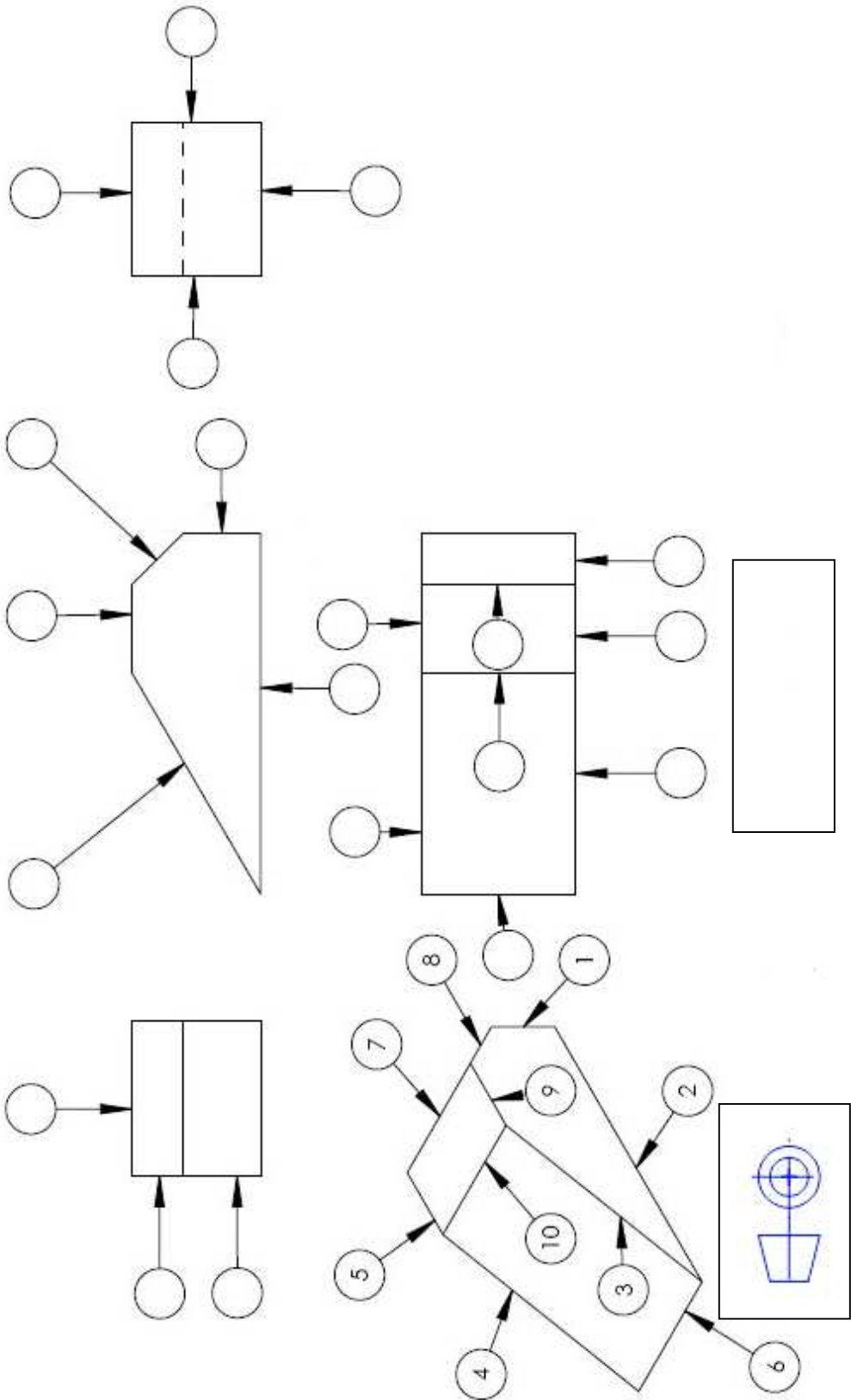
Exercices	Bases du Dessin Industriel	BADI-E-e
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Bases du Dessin industriel

I) Exercice 1

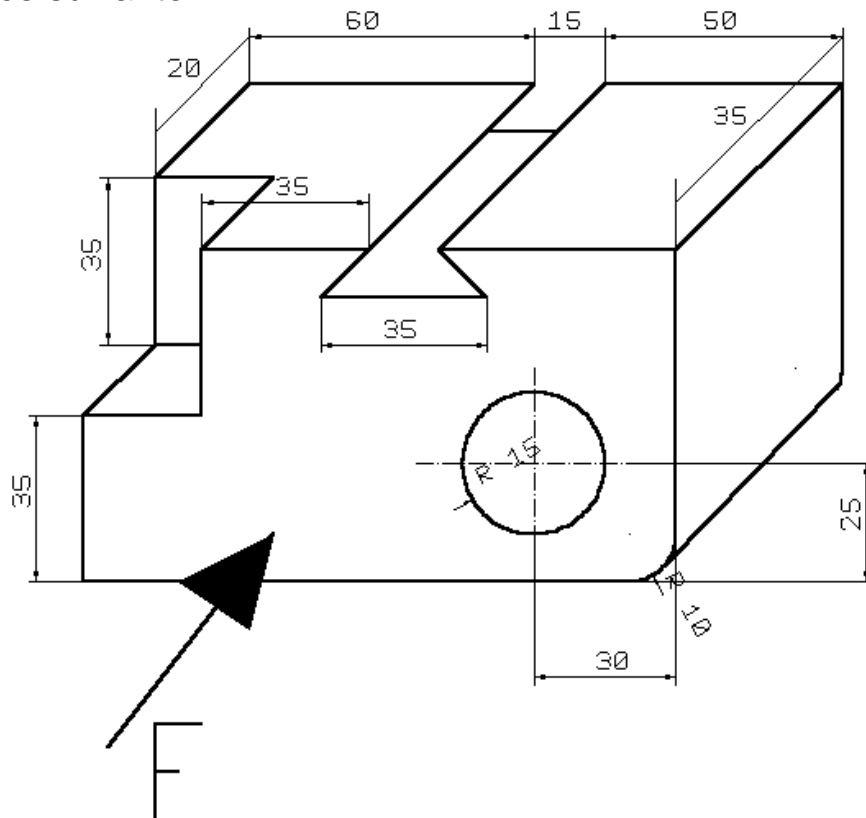
Retrouver le numéro des arêtes et nommer les vues



Exercices	Bases du Dessin Industriel	BADI-E-e
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II) Exercice 2

Soit la pièce suivante :



1) Donner les dimensions du volume enveloppe

2) On souhaite faire les vues de Face sur un format A4H
 Dessus
 Droite

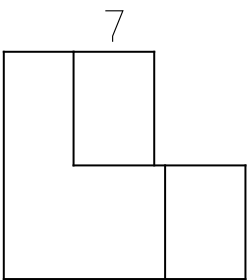
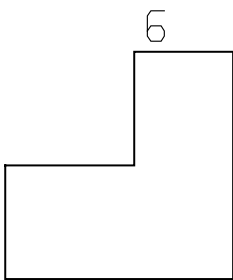
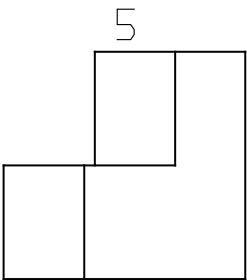
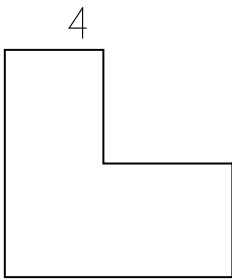
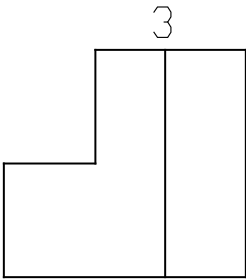
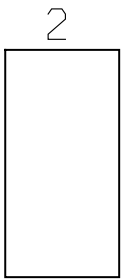
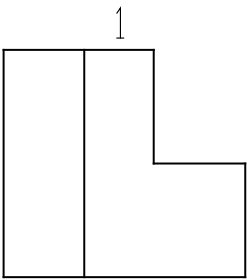
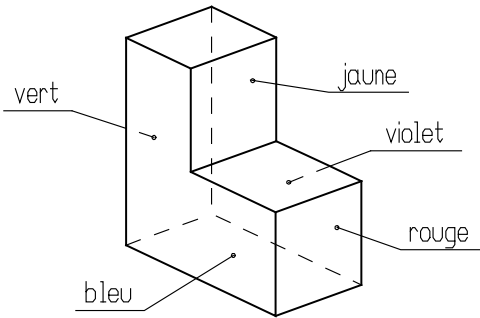
Déterminer les dimensions des cadres enveloppe

3) Déterminer les espacements horizontaux et verticaux entre les vues.

Exercices	Bases du Dessin Industriel	BADI-E-e
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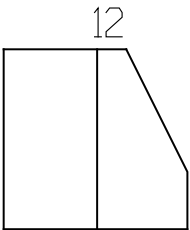
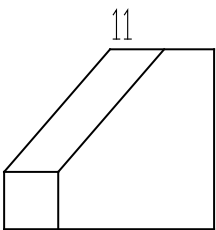
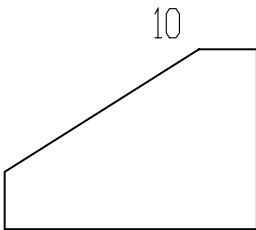
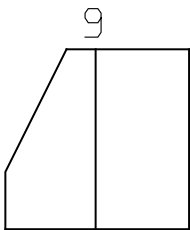
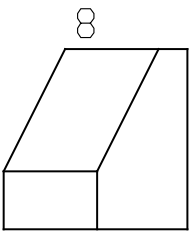
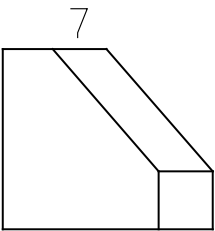
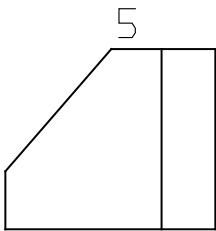
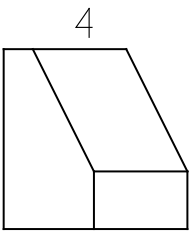
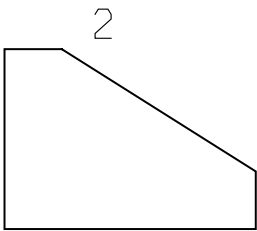
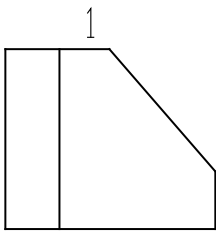
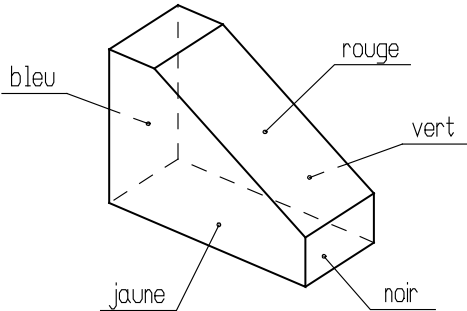
III) Exercice 3

Soit la cale entaillée dessinée ci-contre, en perspective et suivant 8 vues
 Coloriez la perspective et les 8 vues en respectant les couleurs indiquées.



Exercices	Bases du Dessin Industriel	BADI-E-e
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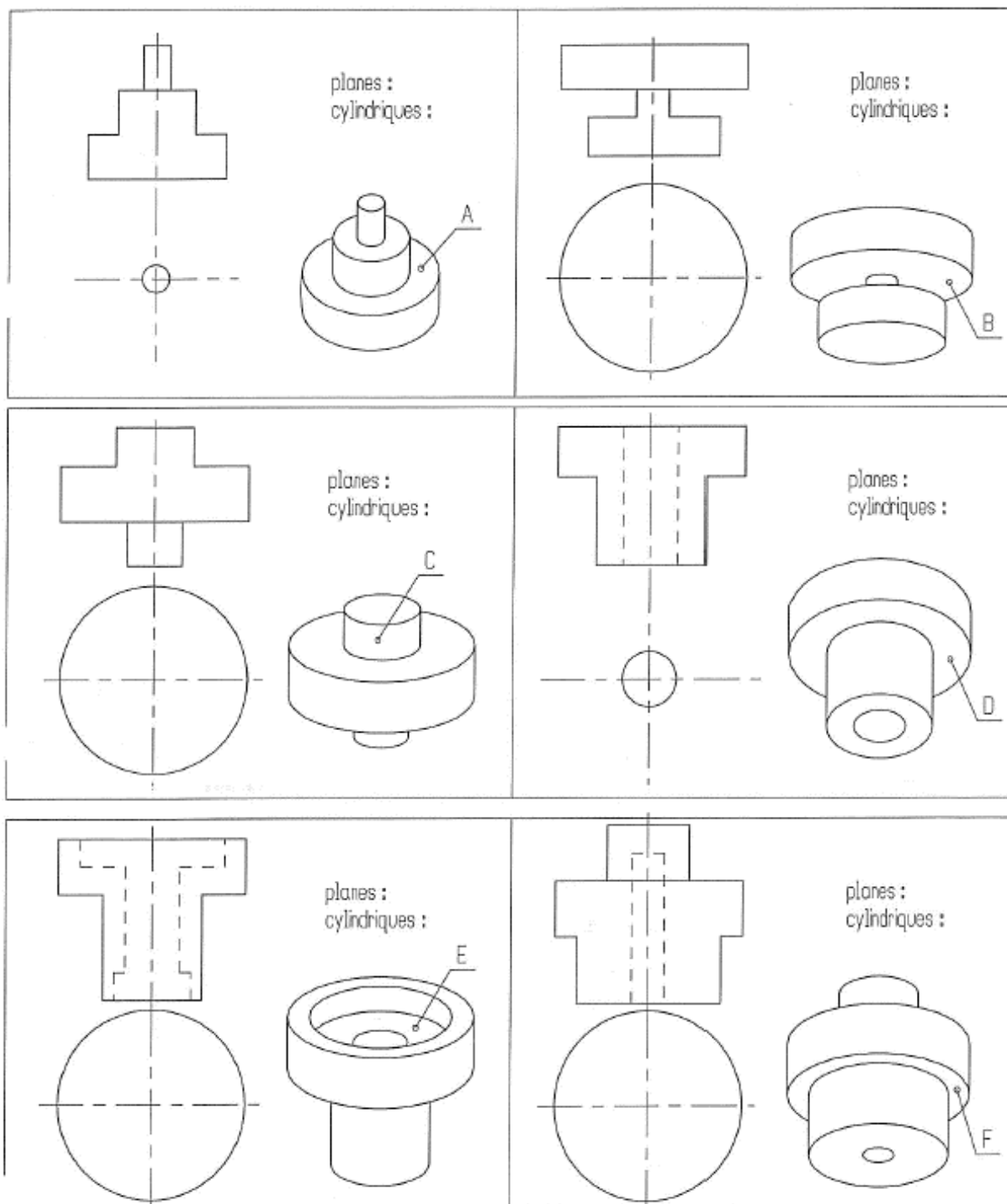
Soit la cale dessinée ci-contre en perspective et suivant 12
 Coloriez la perspective et les 12 vues en respectant les couleurs indiquées.



IV) Exercice 4**Exercice****SURFACE CYLINDRIQUE N°1**

Donnez les 6 pièces ci-dessous entièrement cylindriques.

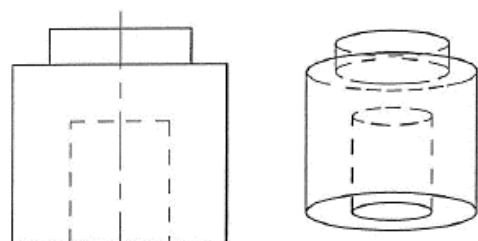
1. Complétez les 6 vues de faces (il manque 1 ou plusieurs segments, en traits forts ou pointillés)
2. Dessinez les vues de dessus (cercles en traits forts ou pointillés)
3. Coloriez de la couleur que vous avez, les surfaces A, B, C, D, E et F dans les 2 vues



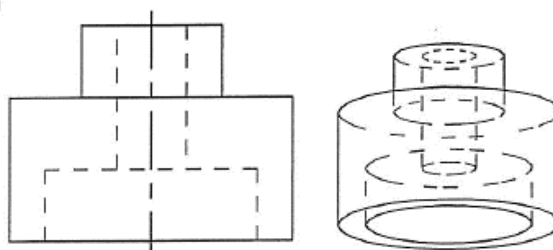
Voici 4 pièces A, B, C, D de formes cylindriques et prismatiques. On vous demande de dessiner :

- pour la pièce A une demi-vue de dessus,
- pour la pièce B un quart de vue de dessus,
- pour la pièce C une demi-vue de dessus et une demi-vue de gauche
- pour la pièce D une demi-vue de dessus

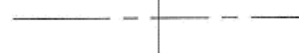
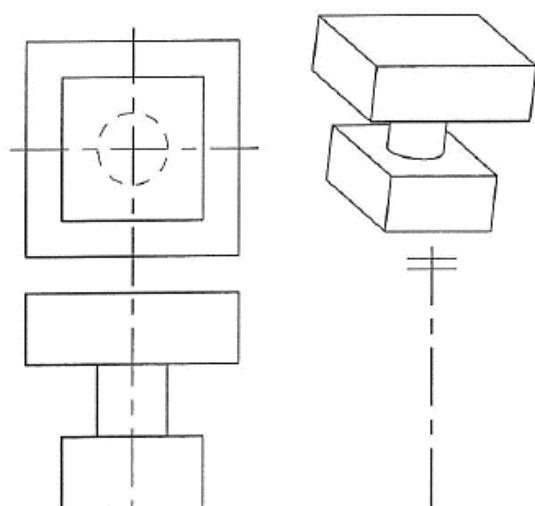
A



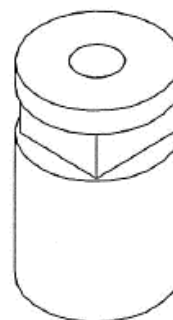
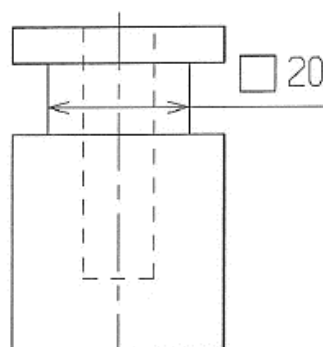
B



C



D



Voici 5 pièces représentées à l'échelle 1 suivant 2 vues et leurs 5 perspectives.

1. Complétez la deuxième vue

1

2

3

4

5

1

2

3

4

5

Exercices	Bases du Dessin Industriel	BADI-E-e
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V) Exercice 5
 Tracer les vues manquantes

1

2

3

4

5

6

7

8

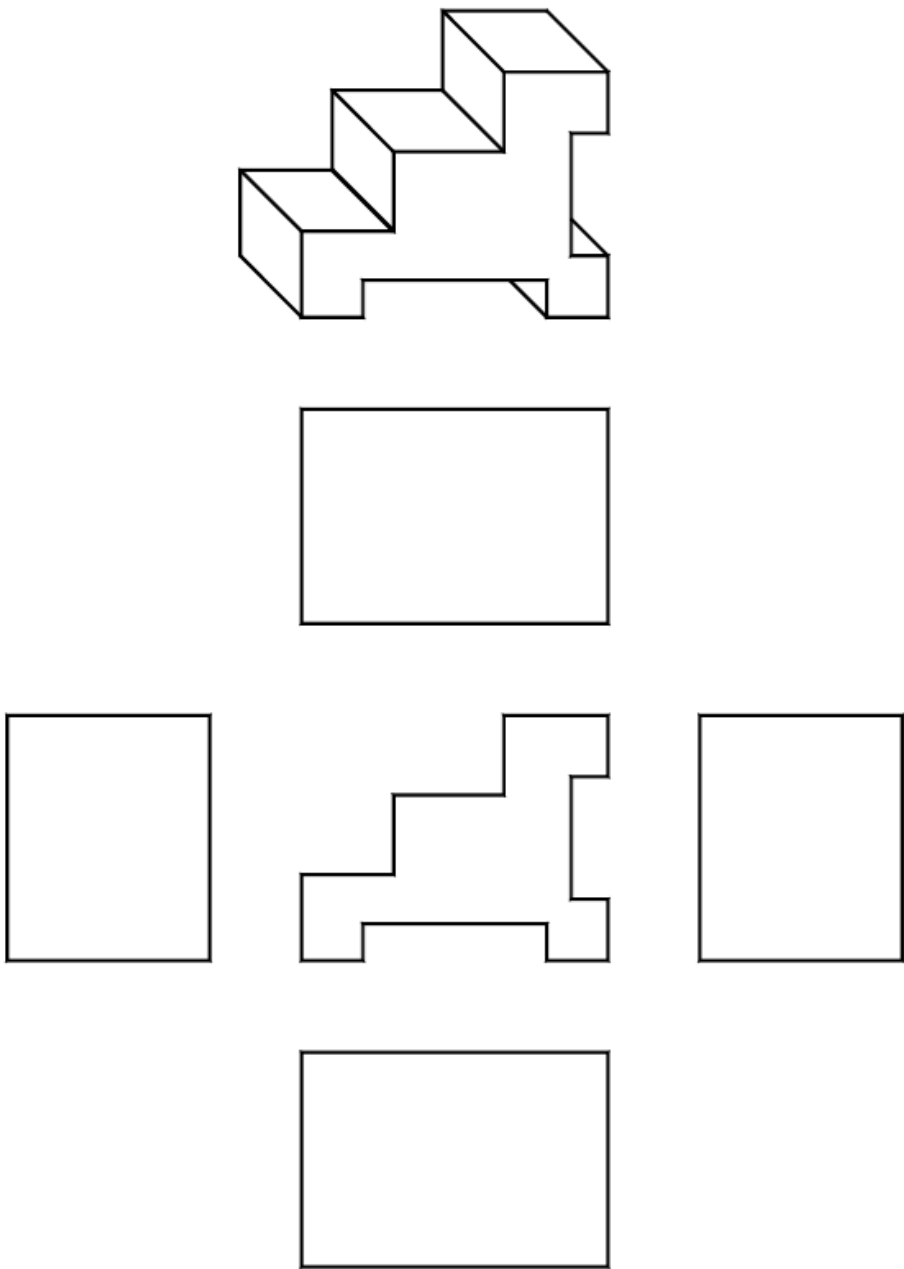
9

10

11

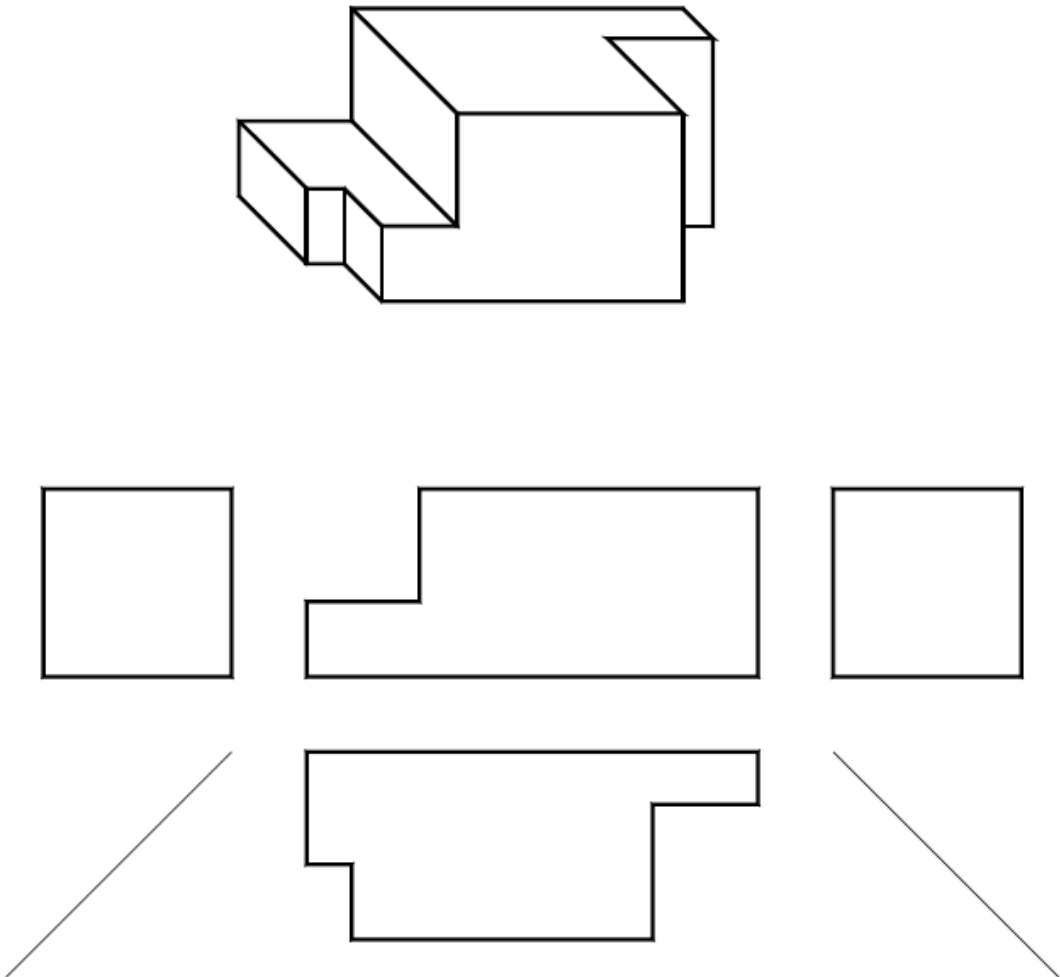
VI) Exercice 6

Compléter les vues esquissées en s'aidant de la perspective et des autres vues.

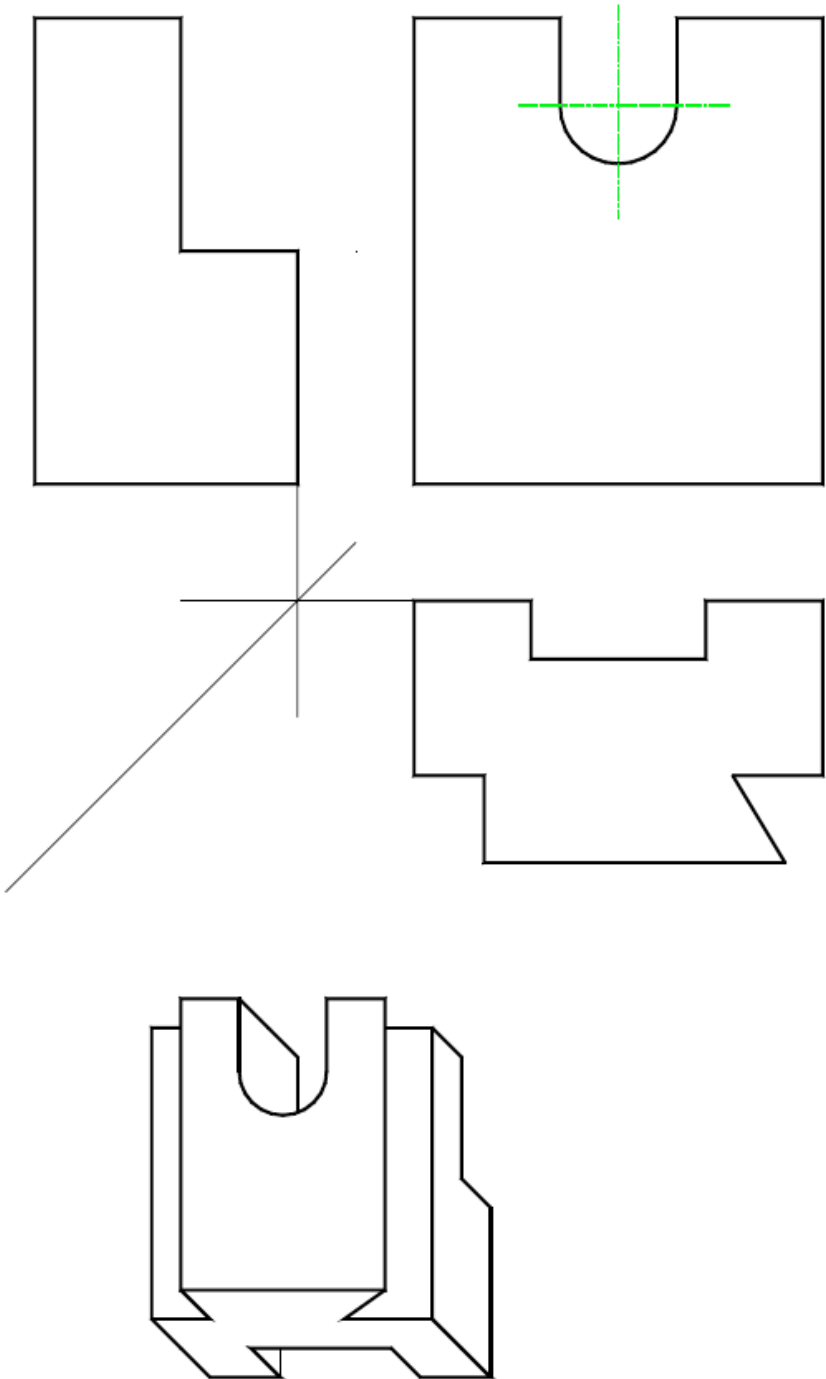


Exercices	Bases du Dessin Industriel	BADI-E-e
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Compléter les vues esquissées en s'aidant de la perspective et des autres vues.



Compléter les vues esquissées en s'aidant de la perspective et des autres vues.



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VII) EXERCICE 7

Compléter les vues avec les formes manquantes suivant l'exemple donné ci dessous

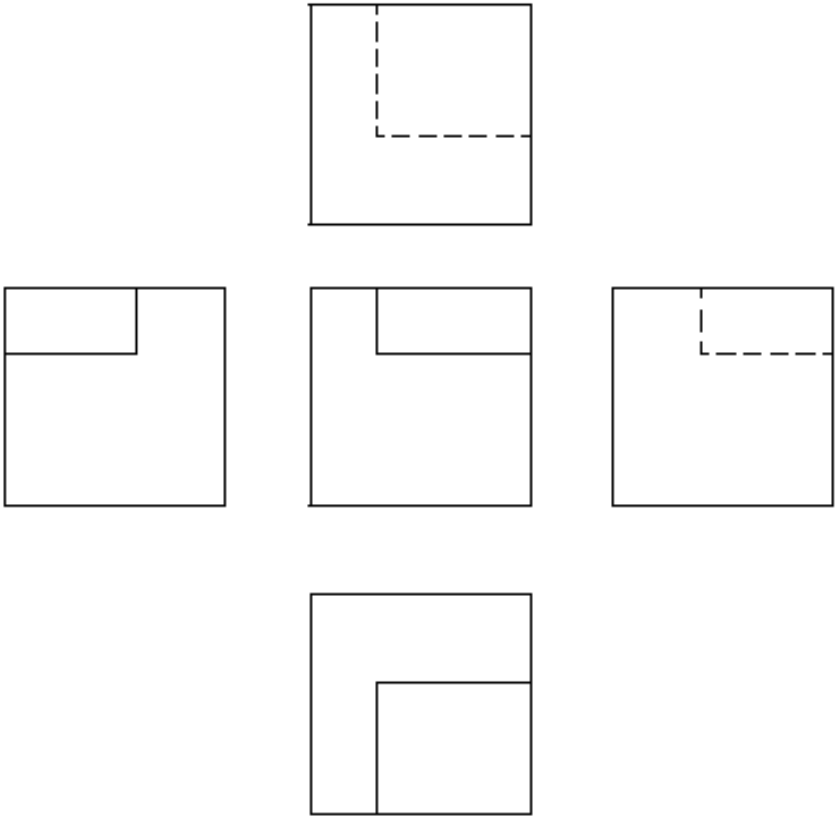
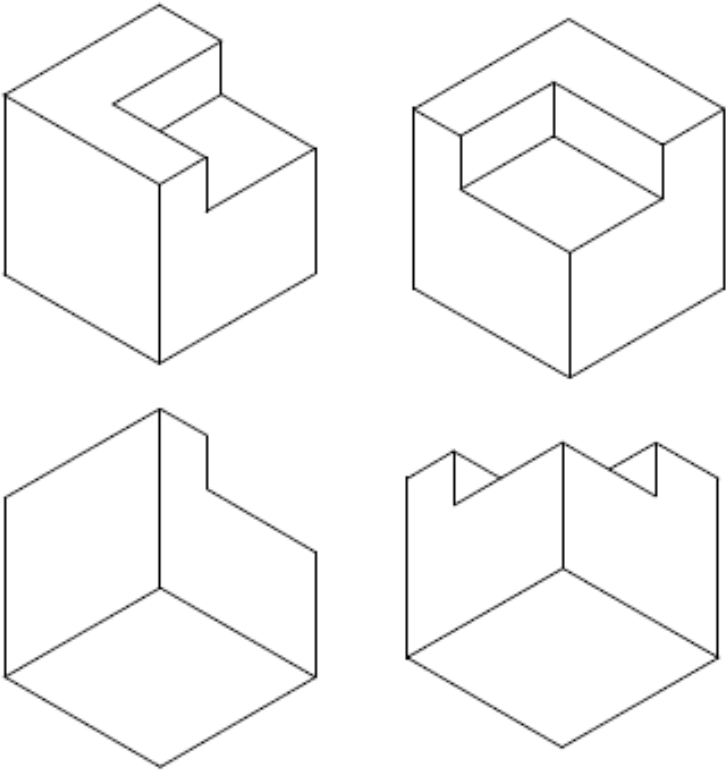


Figure 1

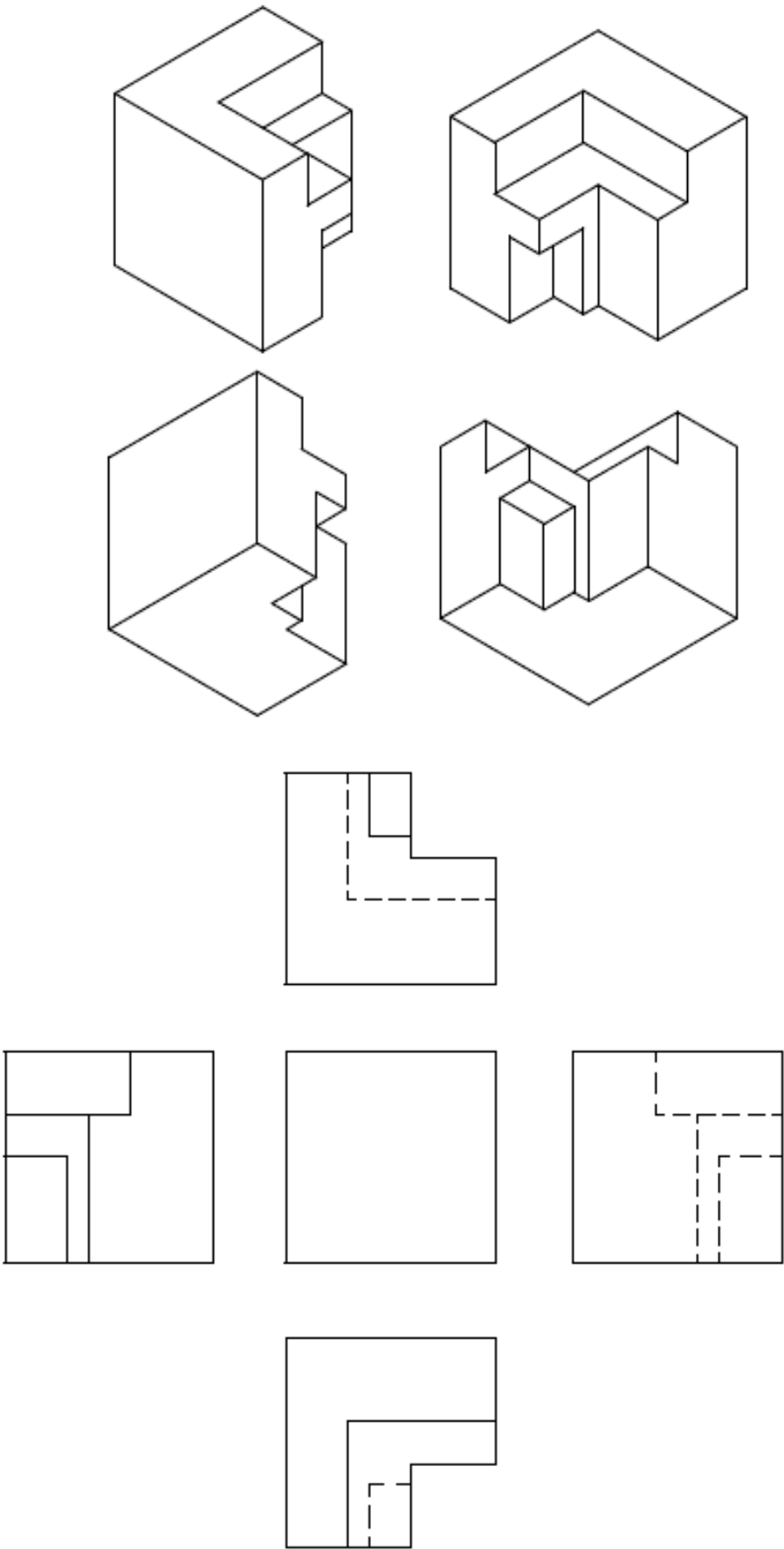


Figure2

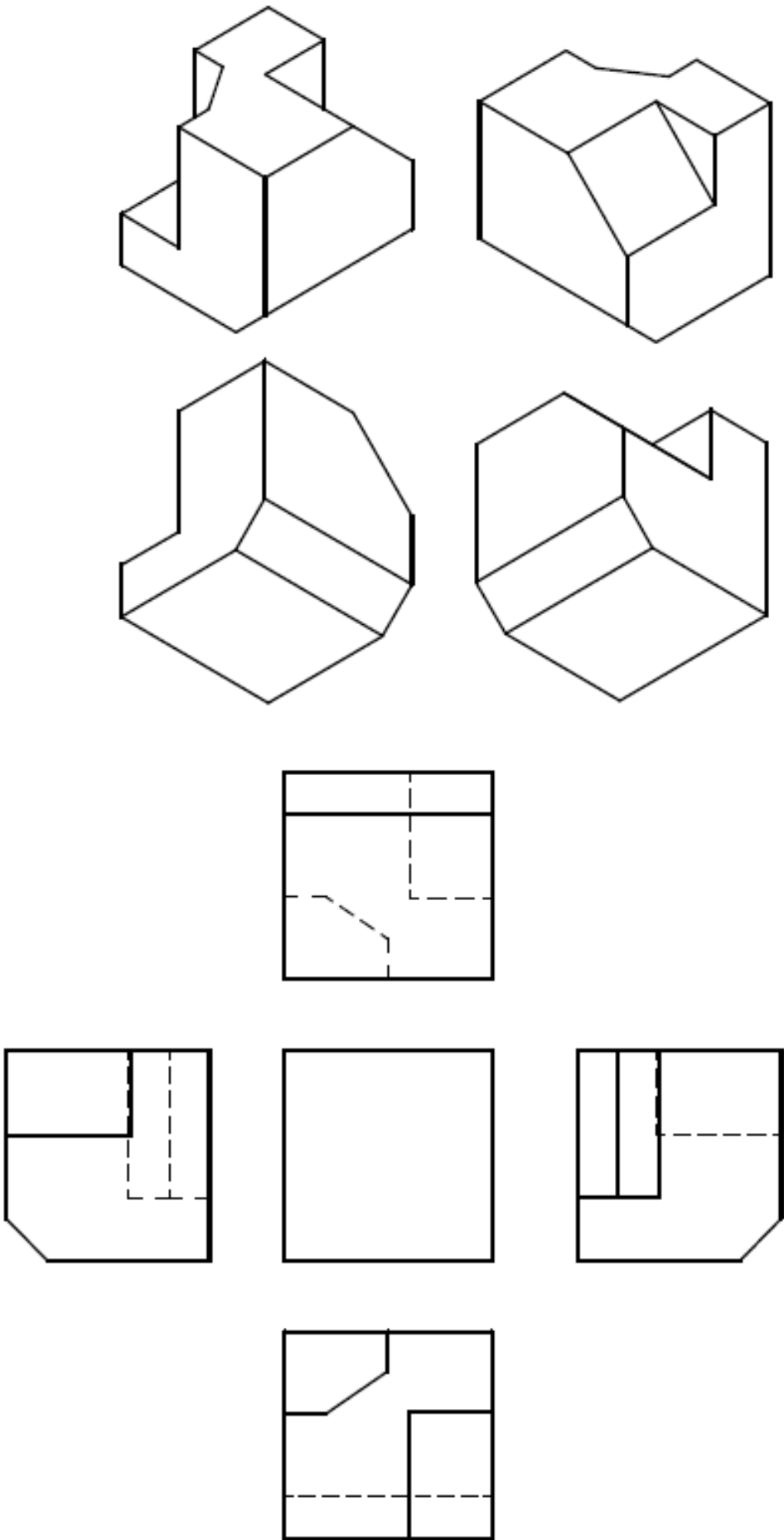


Figure 3

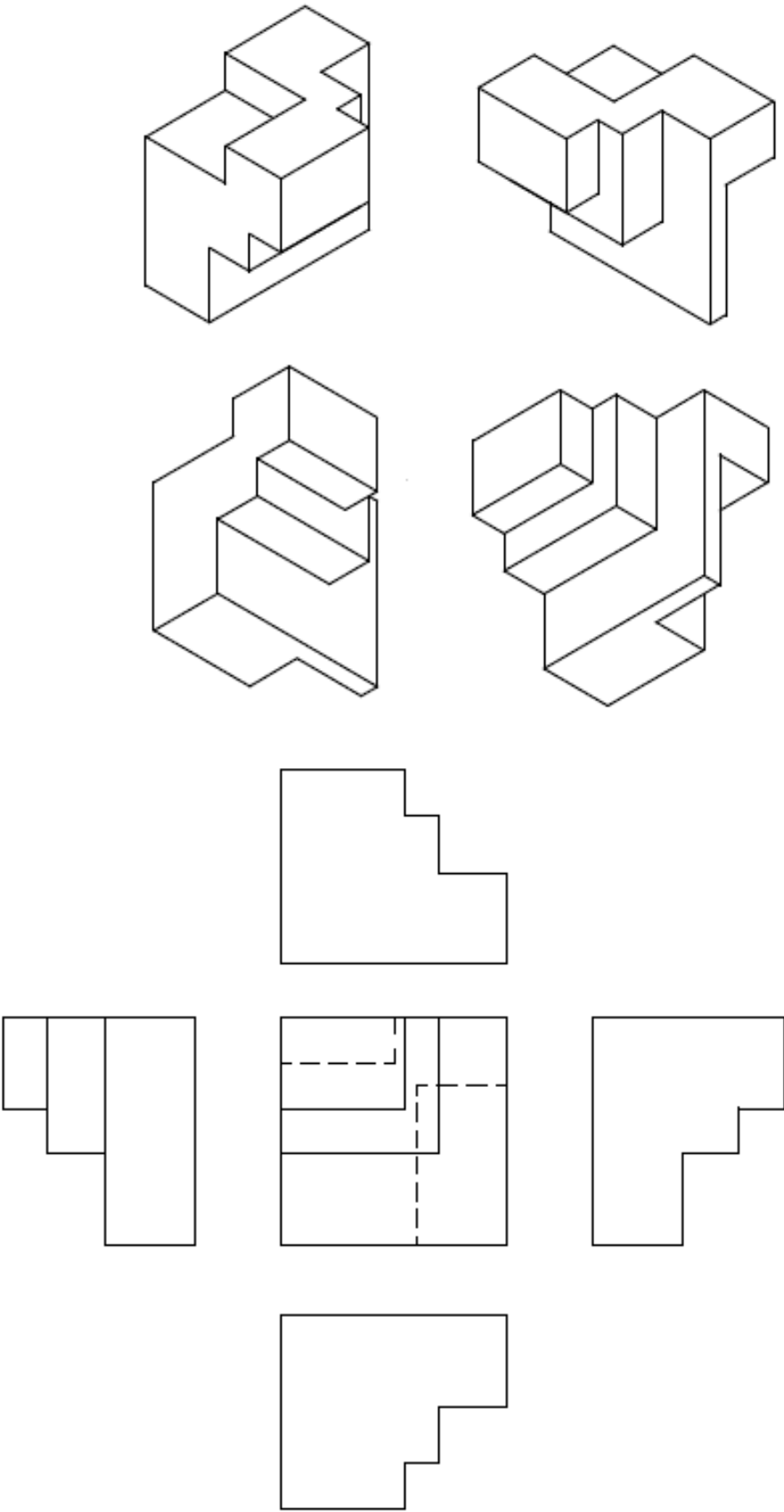


Figure 4

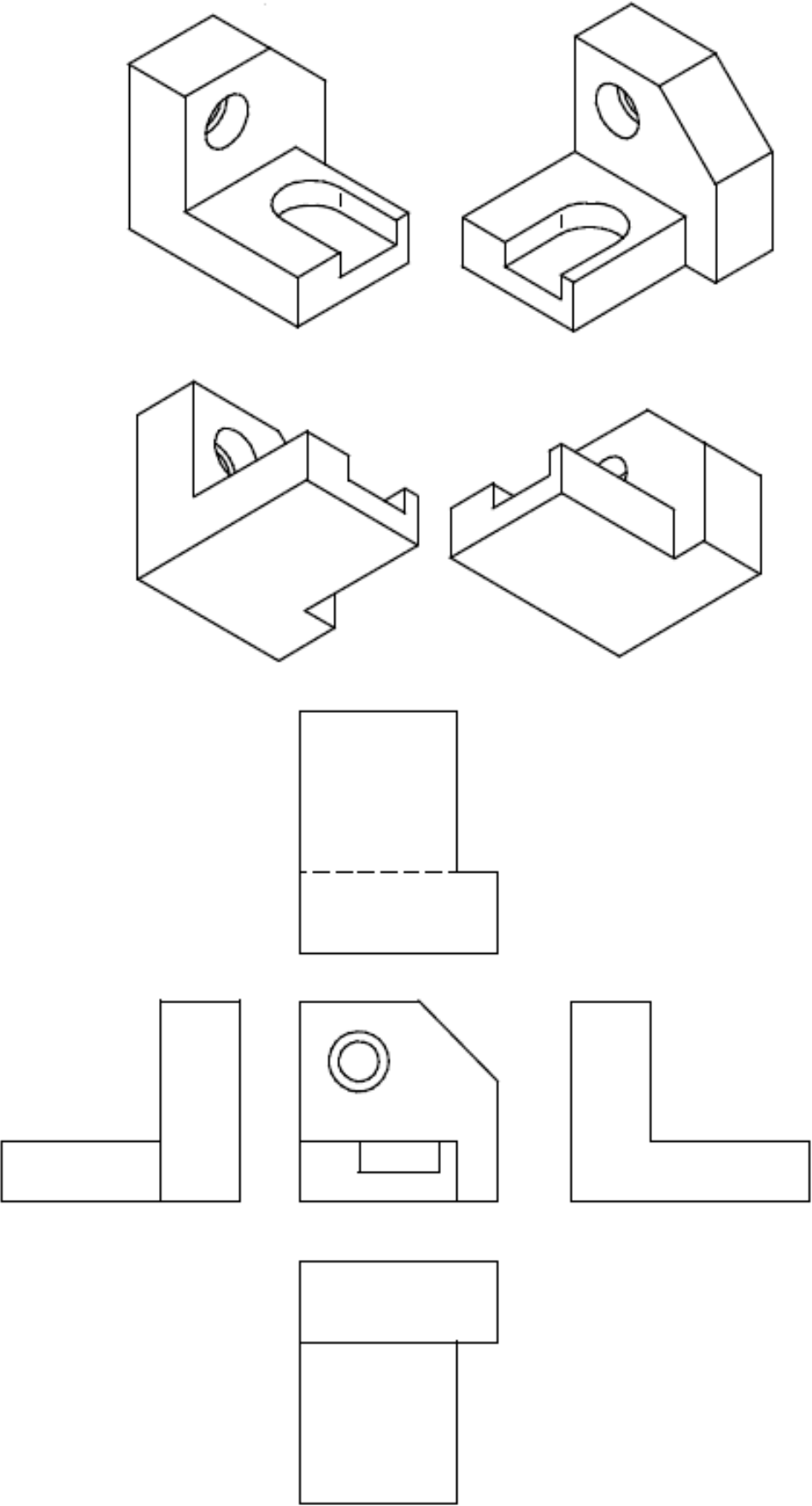
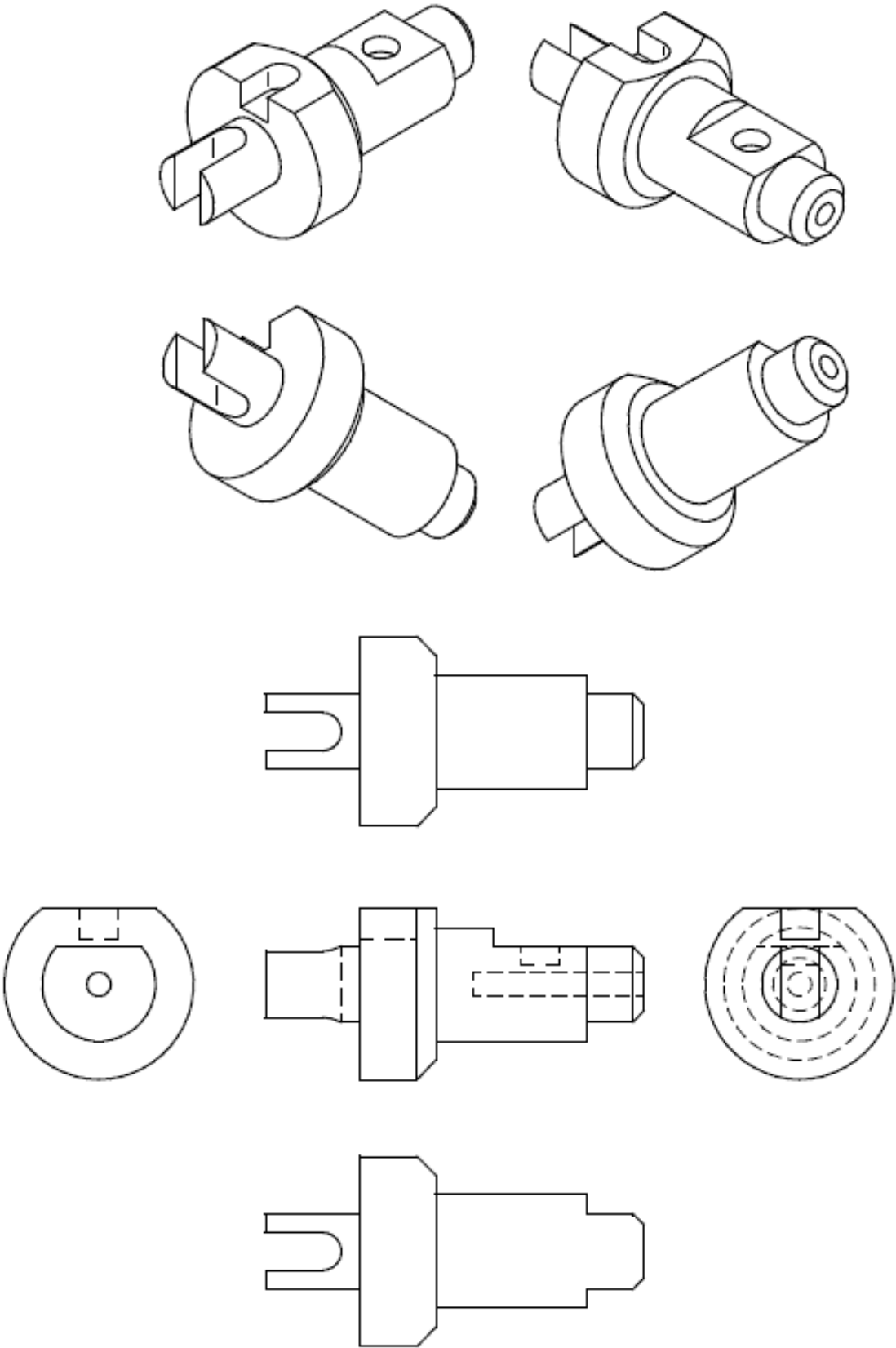
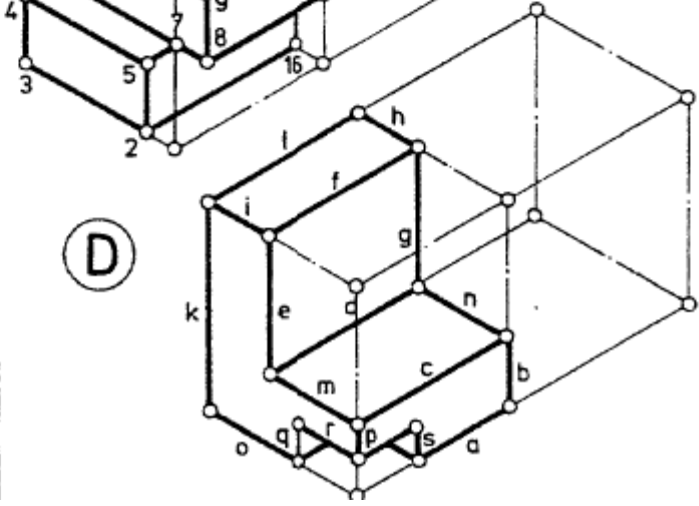
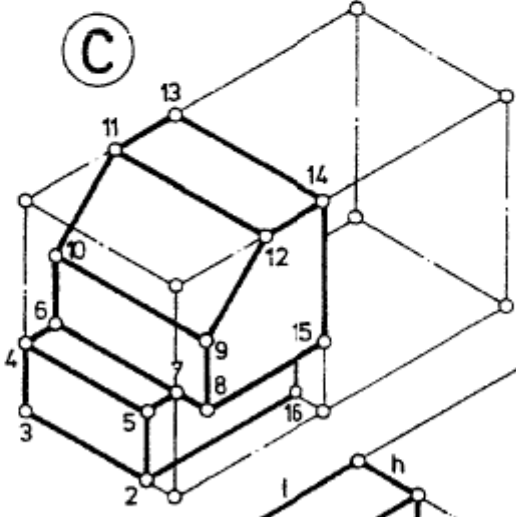
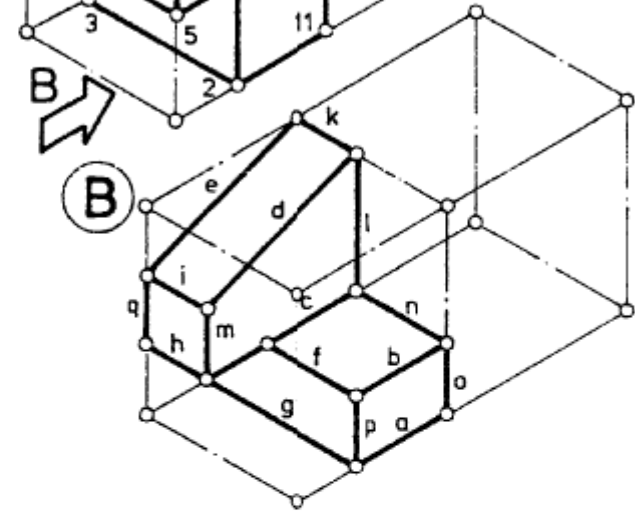
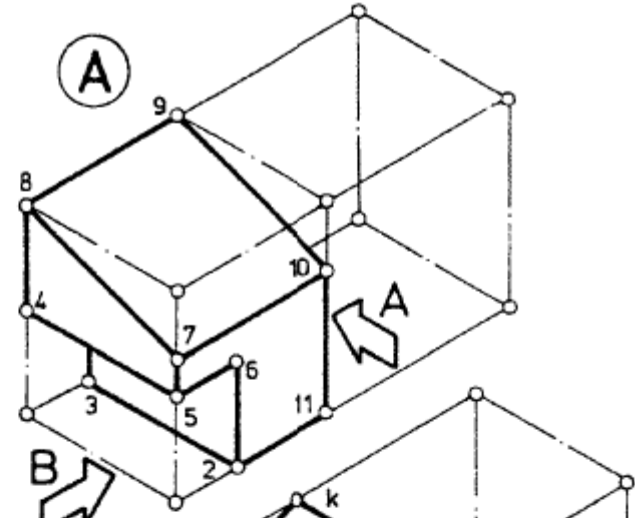
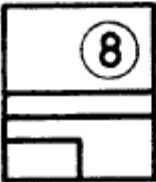
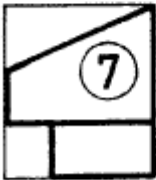
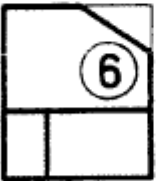
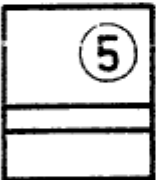
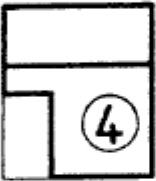
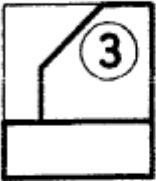
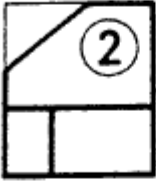
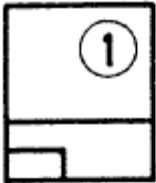


Figure 5



VIII) Exercice 8

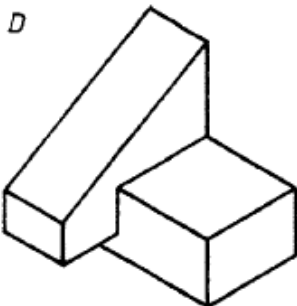
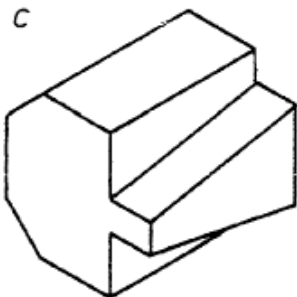
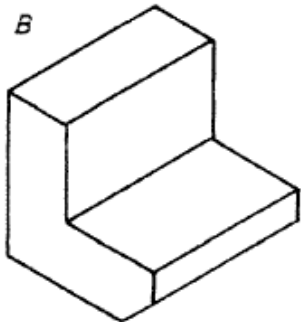
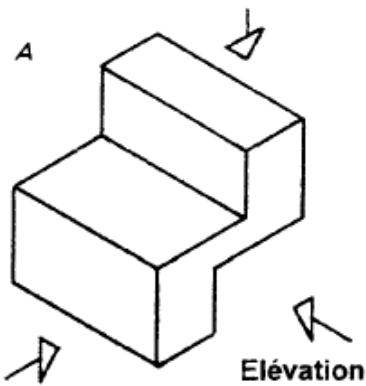


Corps	Vue A
(A)	
(B)	
(C)	
(D)	

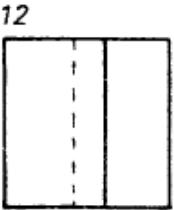
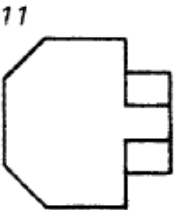
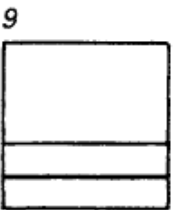
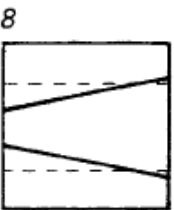
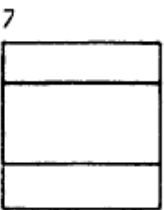
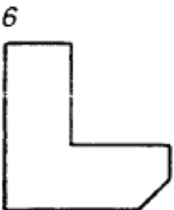
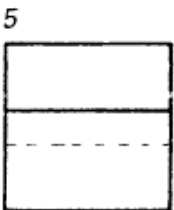
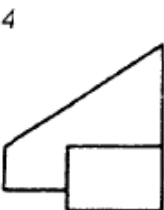
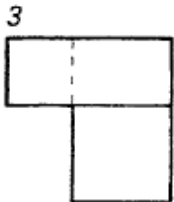
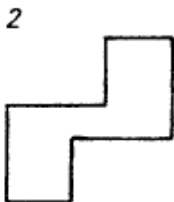
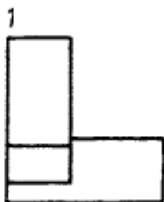
Corps	Vue	Points ou arêtes visibles
(A)	A	
	B	
(B)	A	
	B	
(C)	A	
	B	
(D)	A	
	B	

IX) Exercice 9

Mettez dans l'ordre les trois vues des pièces A, B, C, D en inscrivant les chiffres dans le tableau.



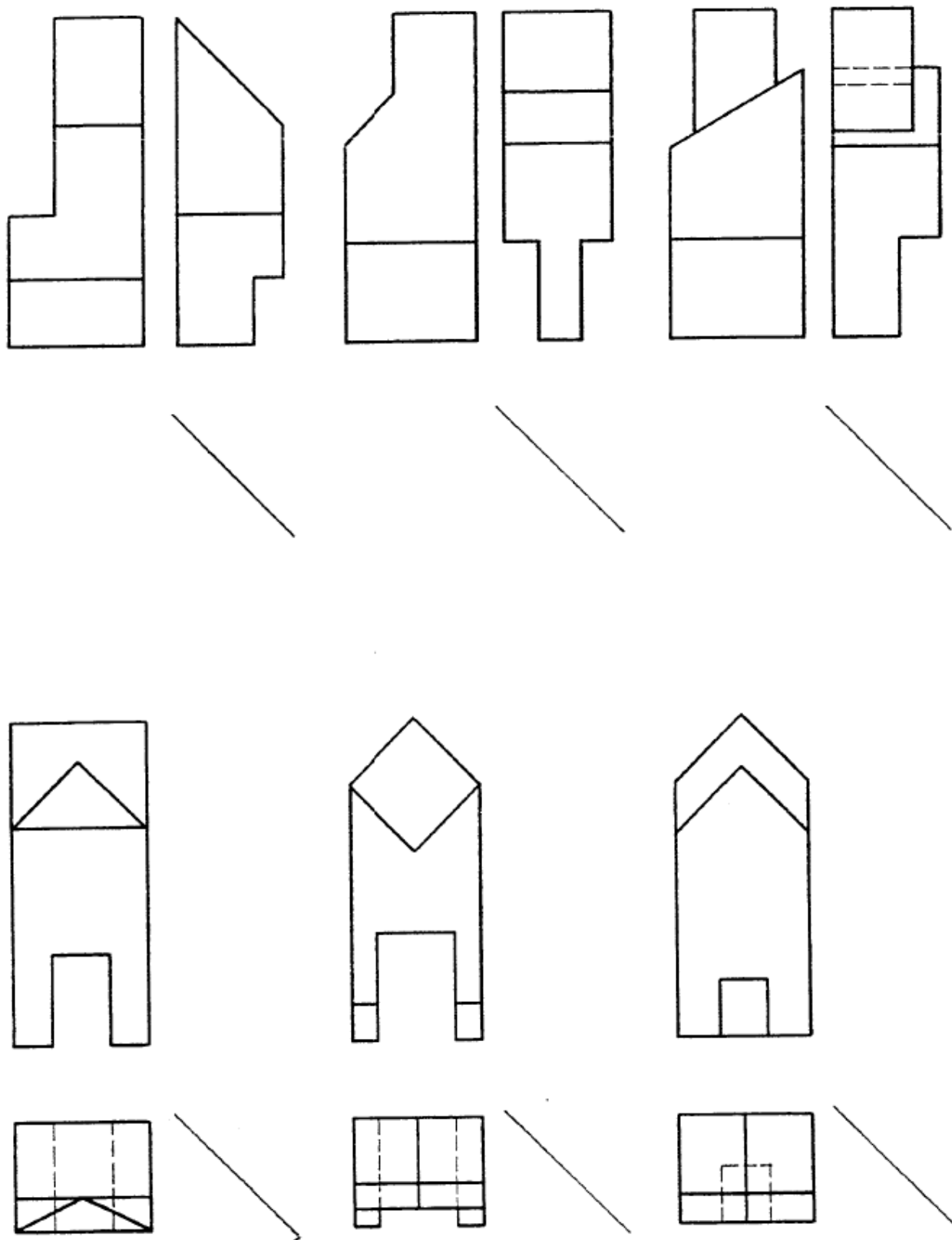
	A	B	C	D



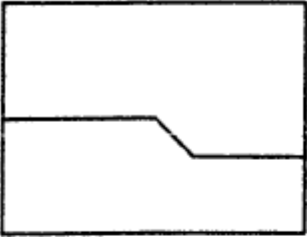

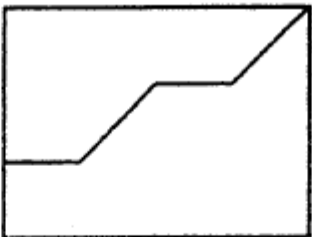
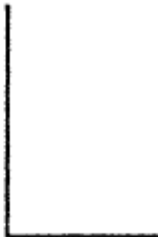
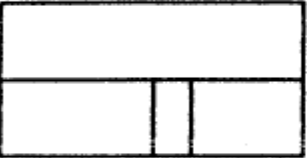
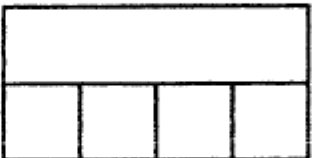
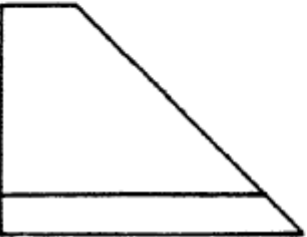
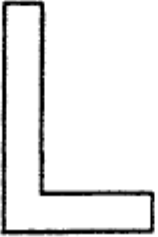
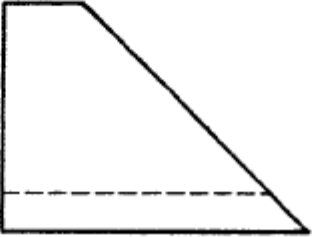
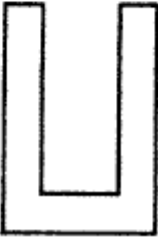

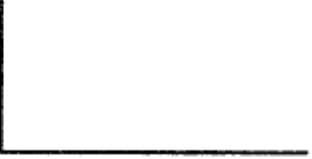
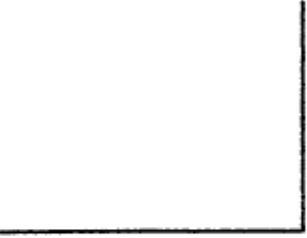
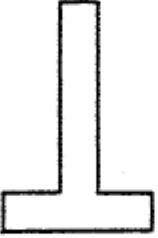
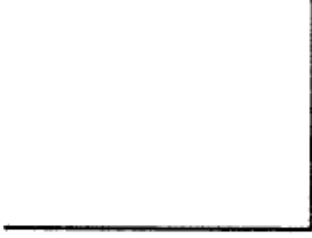
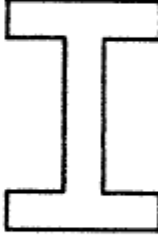
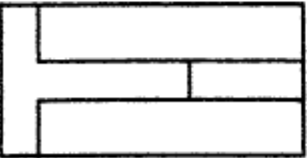
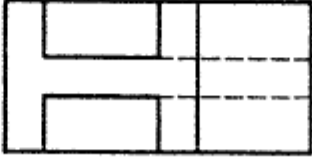
Exercices	Bases du Dessin Industriel	BADI-E-e
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X) Exercice 10 : Compléter la vue manquante

Recherchez la vue manquante.

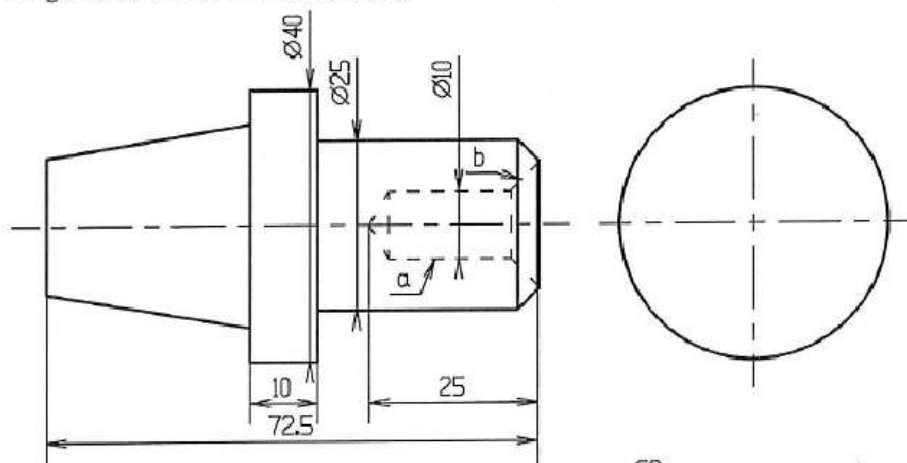


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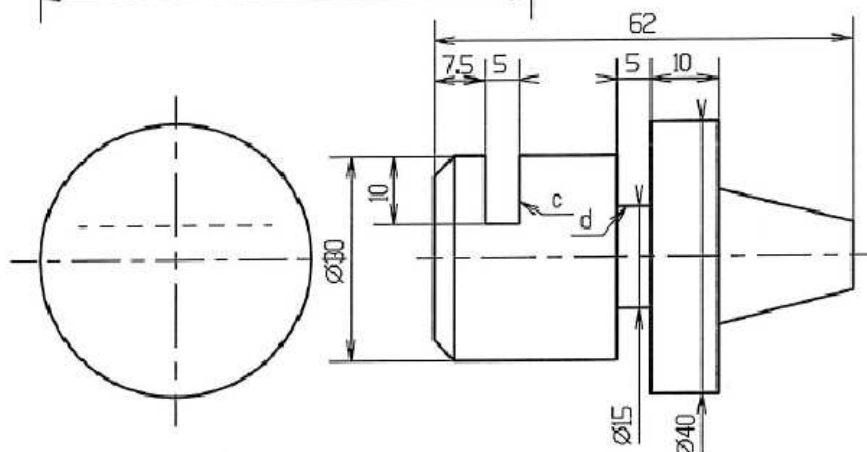
 	 
	
 	 
	
 	 
	

XI) Exercice 11 :**Exercice - Compléter les vues avec les formes décrites****1. 1ère Pièce**

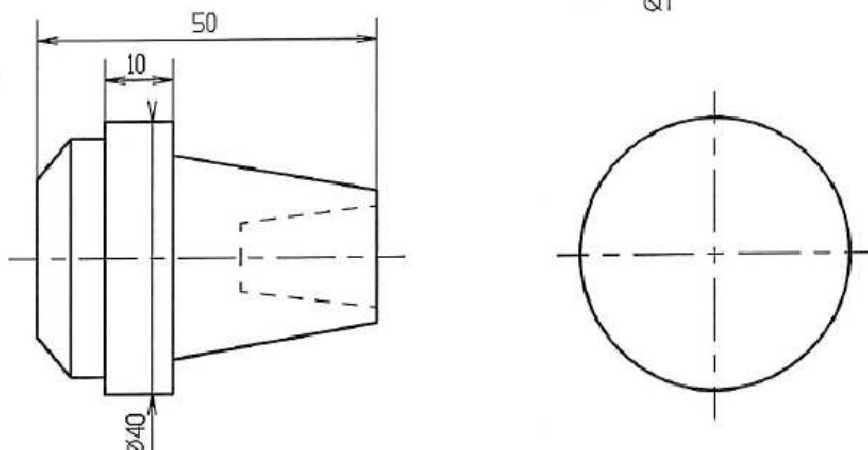
- compléter la vue de gauche.
- complétez la cotation (6cotes), pour le grand cône méthode des diamètres.

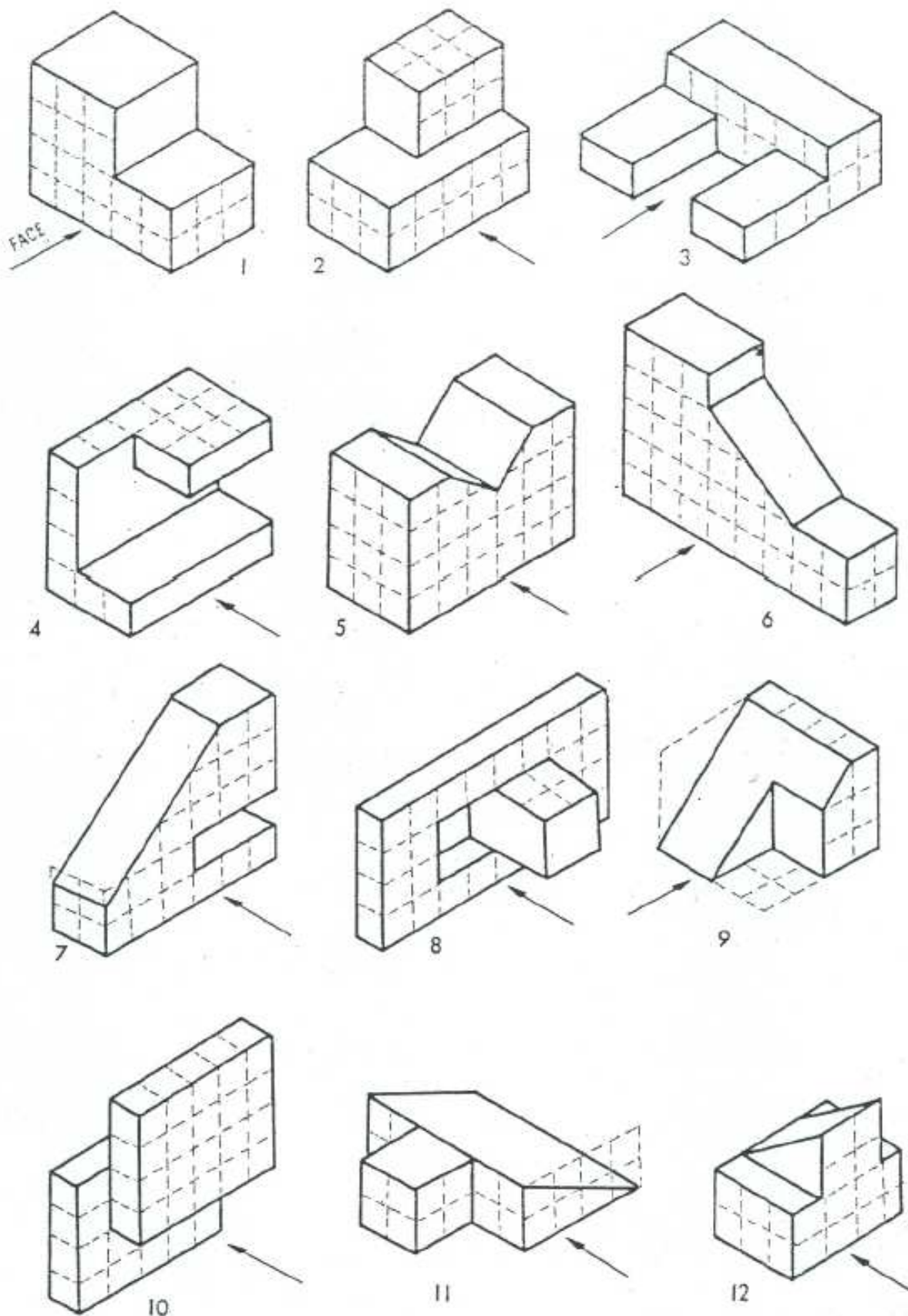
**2. 2ème Pièce**

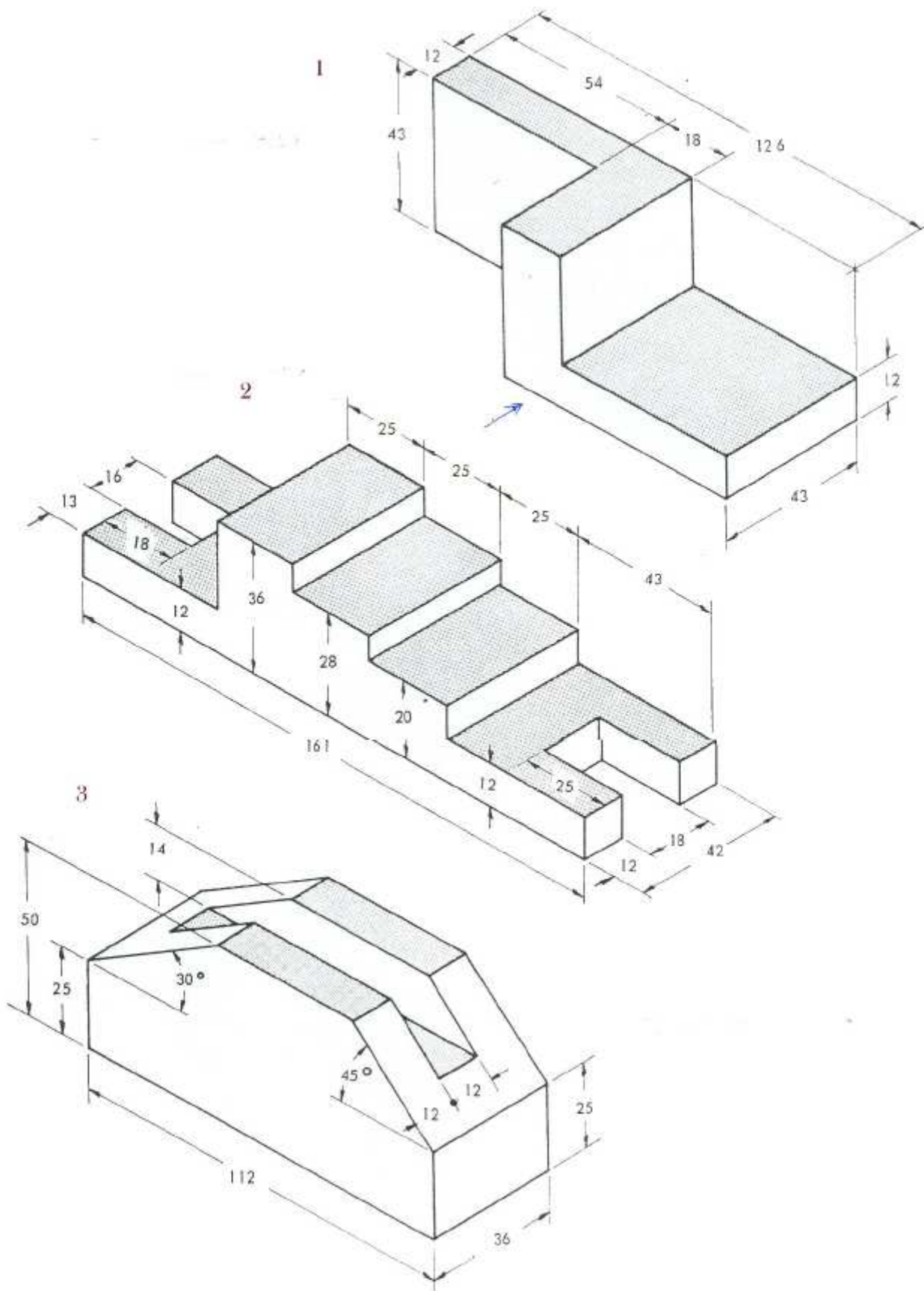
- complétez la vue de droite.
- complétez la cotation (4 cotes), pour le grand cône méthode de la conicité.

**3. 3ème Pièce**

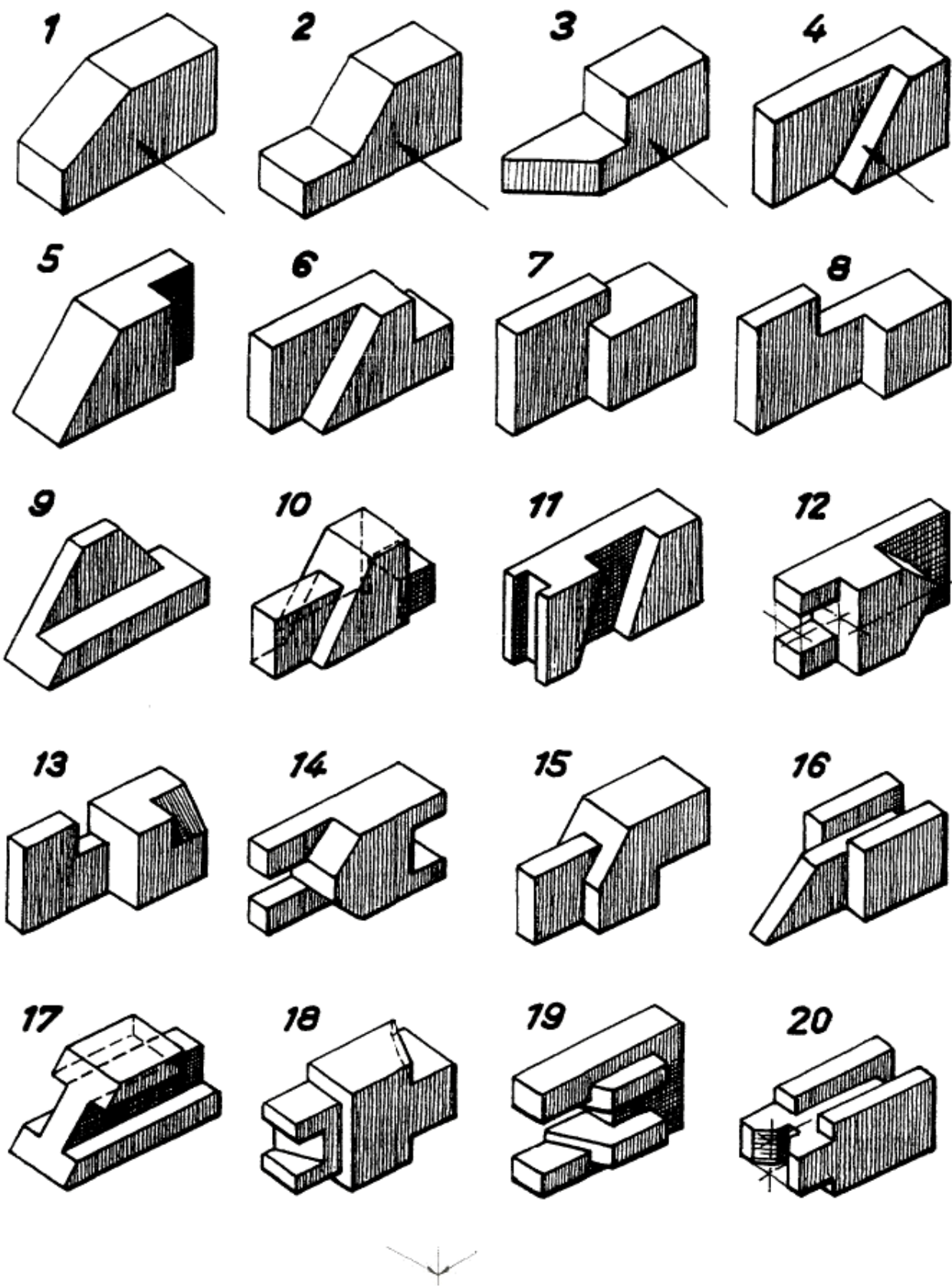
- complétez la vue de gauche.
- complétez la cotation (9 cotes), utilisez la méthode du 1/2 angle au sommet pour les 3 cônes: angles: 50°, 10° et 7°.



XII) Exercice 12 : Représenter ce que l'on voit

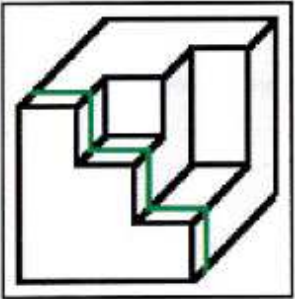
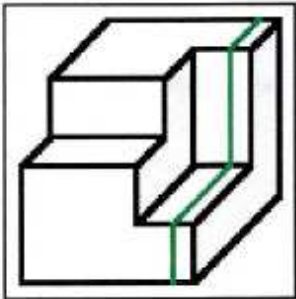
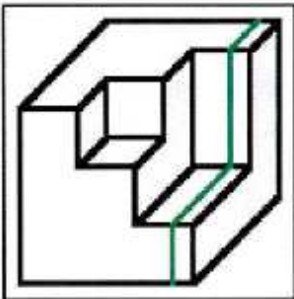
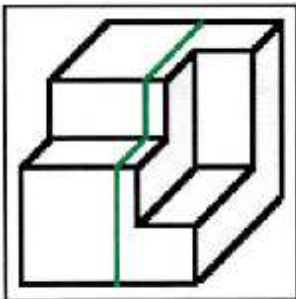
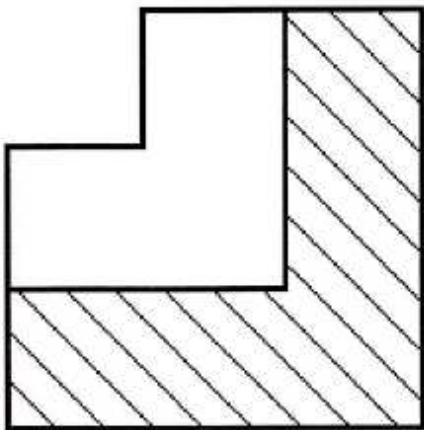


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XIII) Exercice 13 : Coupes

Parmi les 4 perspectives 1, 2, 3 ou 4, quelle est celle dont le plan de coupe correspond à la vue ci-dessous.
(Cocher la bonne réponse)



1
☐

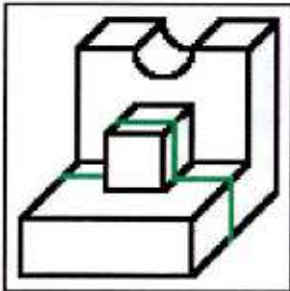
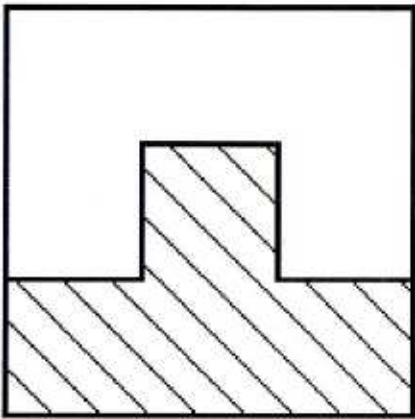
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☐

3
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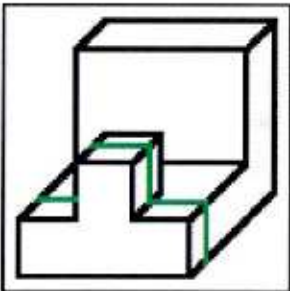
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☐

Exercices	Bases du Dessin Industriel	BADI-E-e
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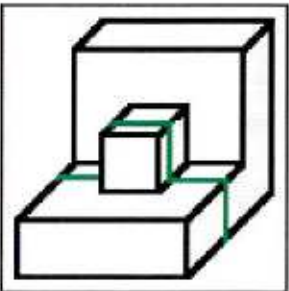
Parmi les 4 perspectives 1, 2, 3 ou 4, quelle est celle dont le plan de coupe correspond à la vue ci-dessous.
 (Cocher la bonne réponse)



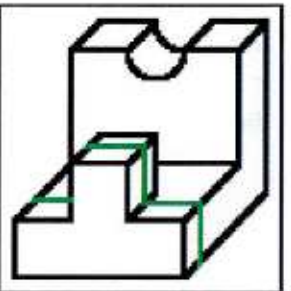
1

☐


2

☐


3

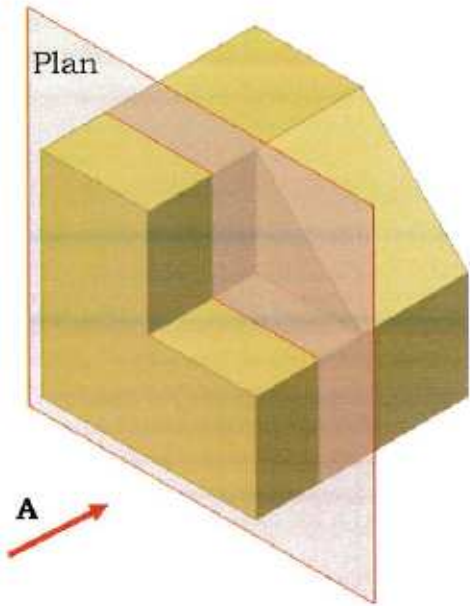
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4

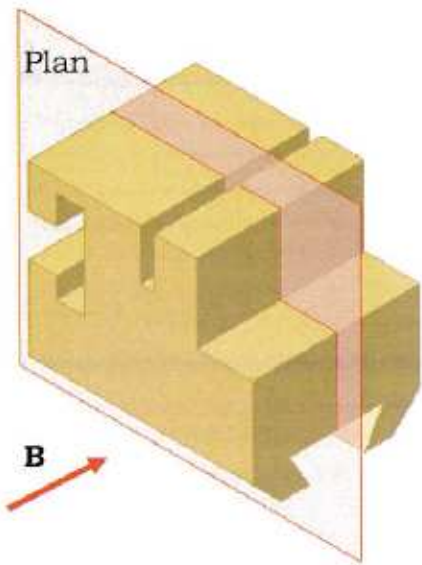
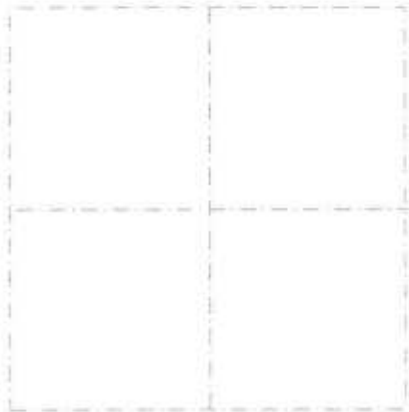
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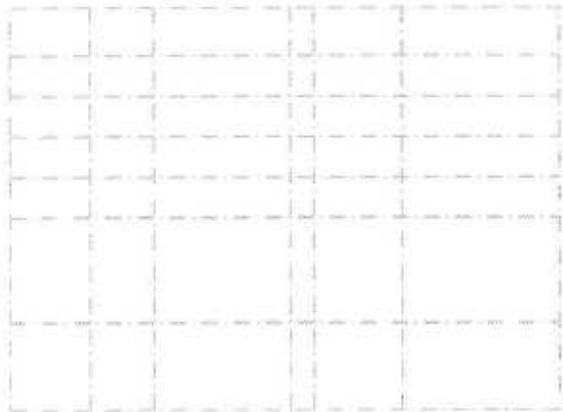
A l'aide des perspectives ci-dessous, représenter les vues en coupe.
(hachures, arêtes vues et cachées)



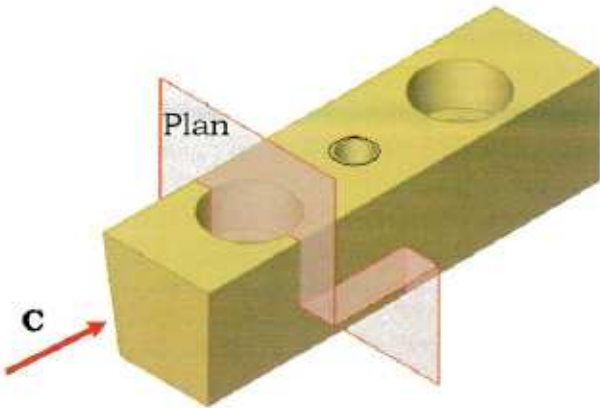
A - A



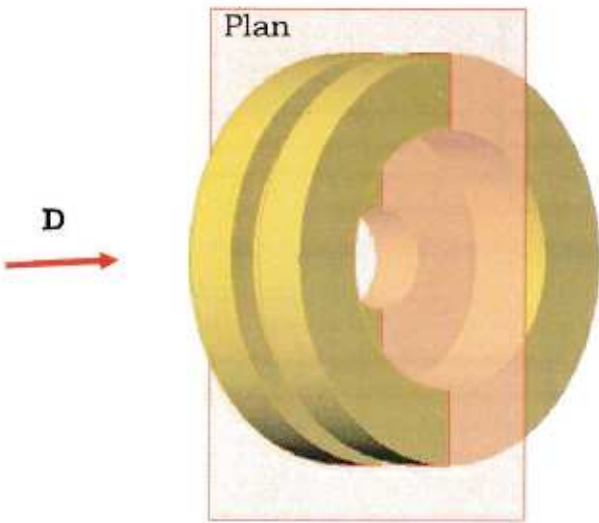
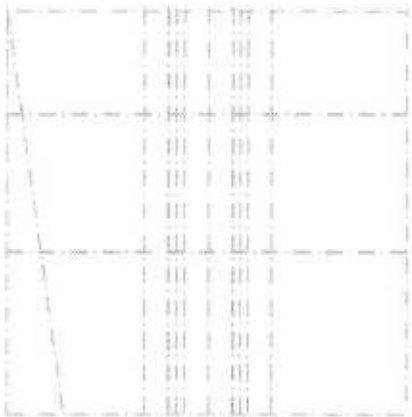
B - B



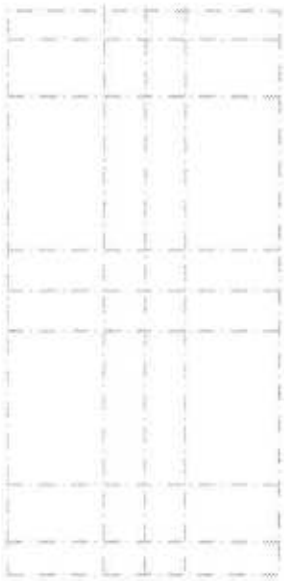
Exercices	Bases du Dessin Industriel	BADI-E-e
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C - C



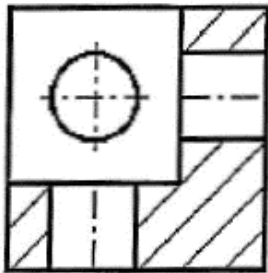
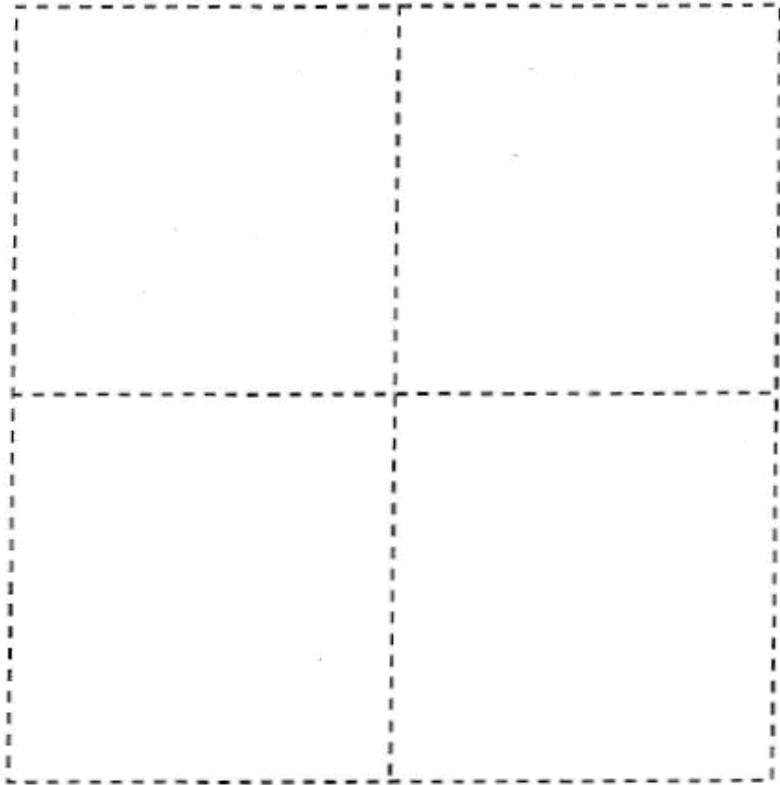
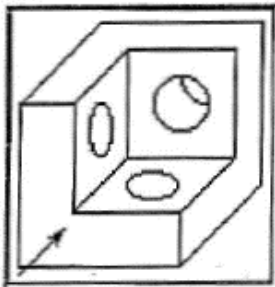
D - D



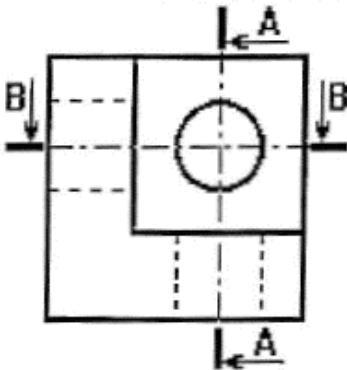
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XIV) EXERCICE 14 : Projections et Coupes

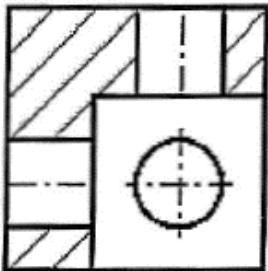
Par rapport à la vue en perspective, replacer les 3 vues ci-dessous correctement.
 (la flèche désigne la vue de face)



1



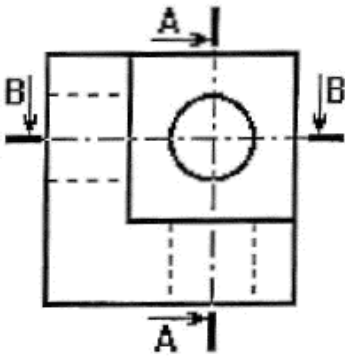
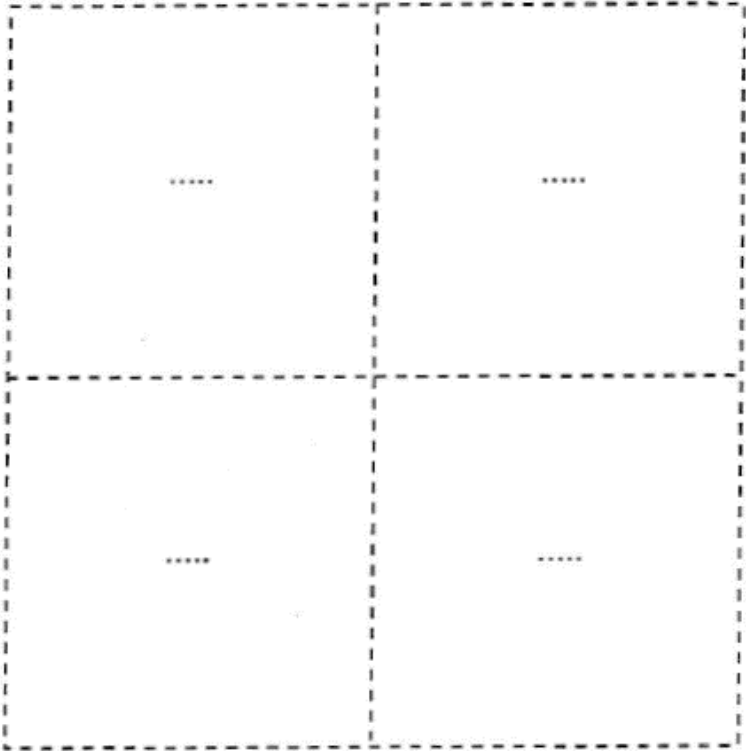
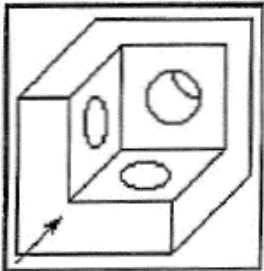
2



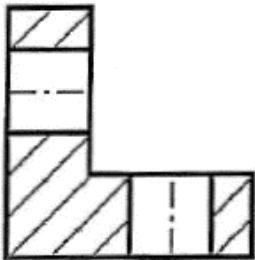
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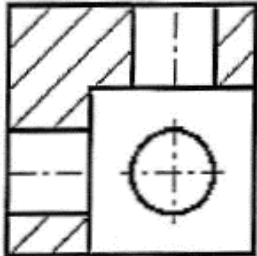
Par rapport à la vue en perspective, replacer les 3 vues ci-dessous correctement.
 (la flèche désigne la vue de face)



1



2



3

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XV) Exercice 15 : Coupes

Soit la pièce ci-dessous représentée suivant 3 vues incomplètes,

On vous demande de dessiner :

Une vue de **face coupe A-A**, une **vue de gauche coupe B-B** et une **vue de dessus coupe C-C**

Pour cela on vous demande de réaliser les activités suivantes:

Q1.1- ECRIVEZ les noms des coupes **A-A**, **B-B** et **C-C** au-dessus des vues correspondantes.

Q1.2- En vous aidant des plans de coupe déjà tracés, **REPRESENTEZ** les flèches et leurs désignations correspondantes sur chaque plan de coupe. (A-A, B-B...)

Q1.3- En vous aidant du plan de coupe A-A, **COLORIEZ** en **bleu** la matière coupée sur la vue en **perspective**.

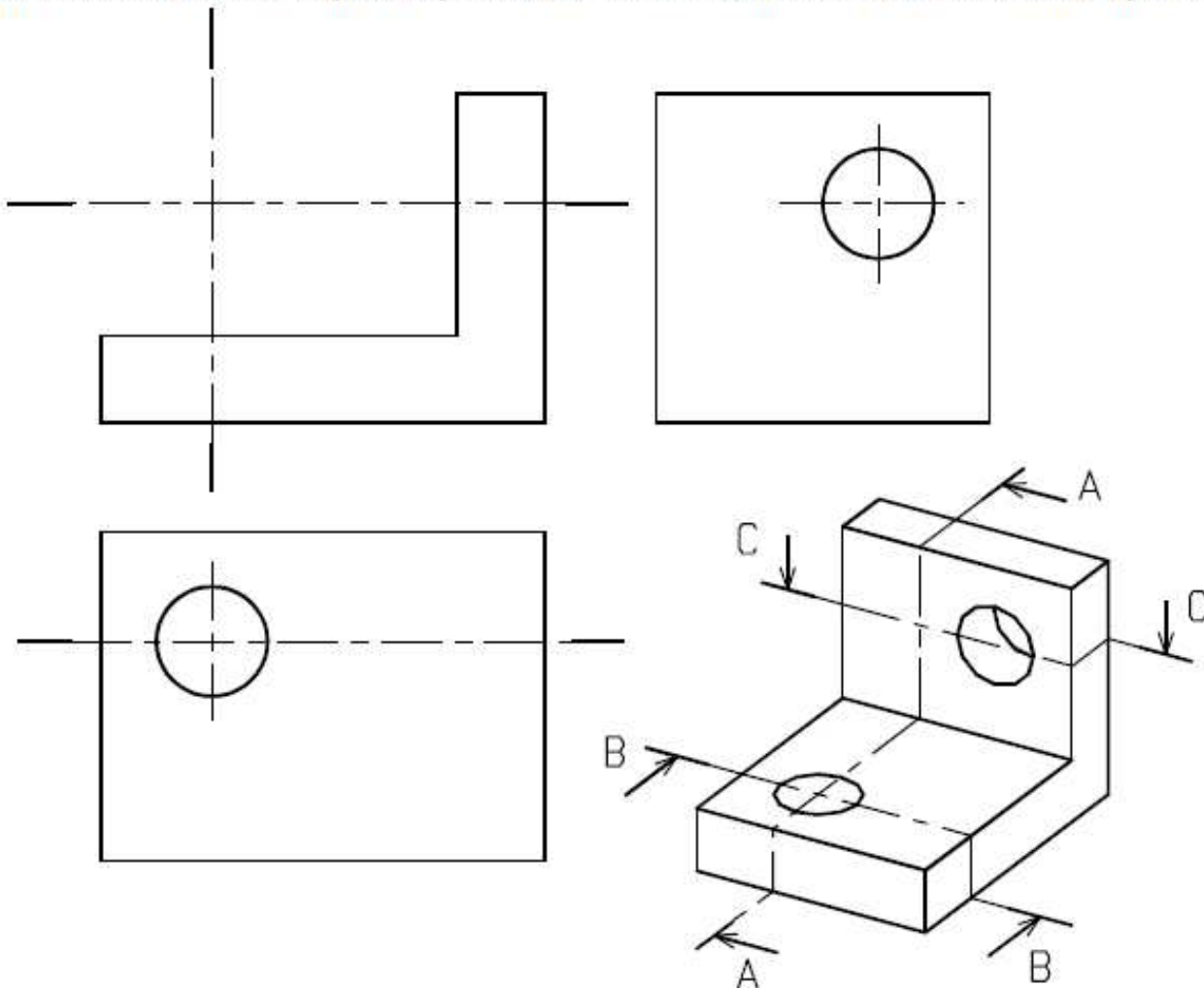
Q1.4- En vous aidant de la question précédente, **TRANSFORMEZ** la vue de face en **coupe A-A**.

Q1.5- En vous aidant du plan de coupe B-B, **COLORIEZ** en **rouge** la matière coupée sur la vue en **perspective**.

Q1.6- En vous aidant de la question précédente, **TRANSFORMEZ** la vue de gauche en **coupe B-B**.

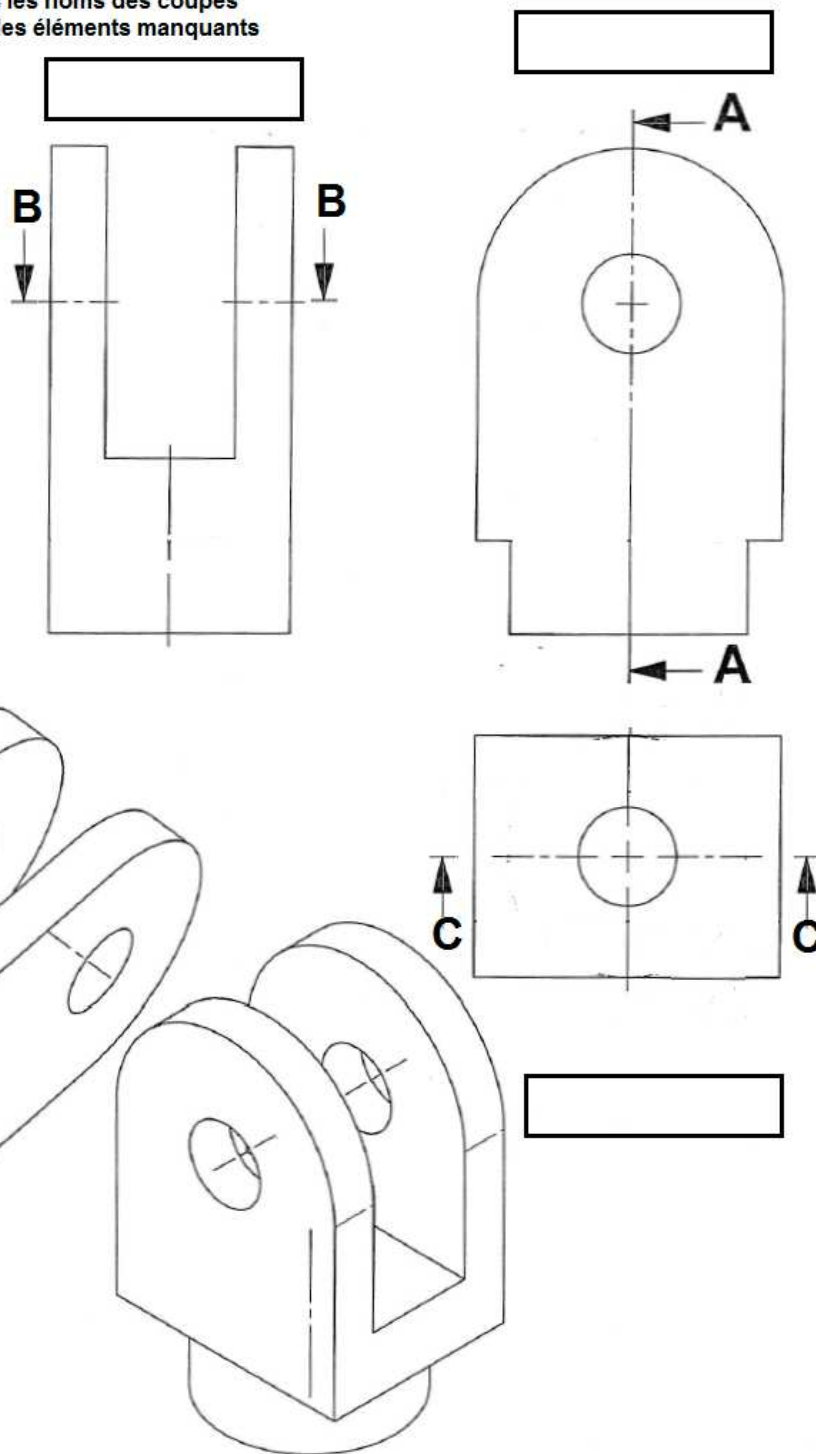
Q1.7- En vous aidant du plan de coupe C-C, **COLORIEZ** en **vert** la matière coupée sur la vue en **perspective**.

Q1.8- En vous aidant de la question précédente, **TRANSFORMEZ** la vue de dessus en **coupe C-C**.



XVI) EXERCICE 16 : Correspondances entre vues

- 1) Préciser dans les cadres les noms des coupes
2) Préciser sur les coupes les éléments manquants



Echelle
1:1

Nom :

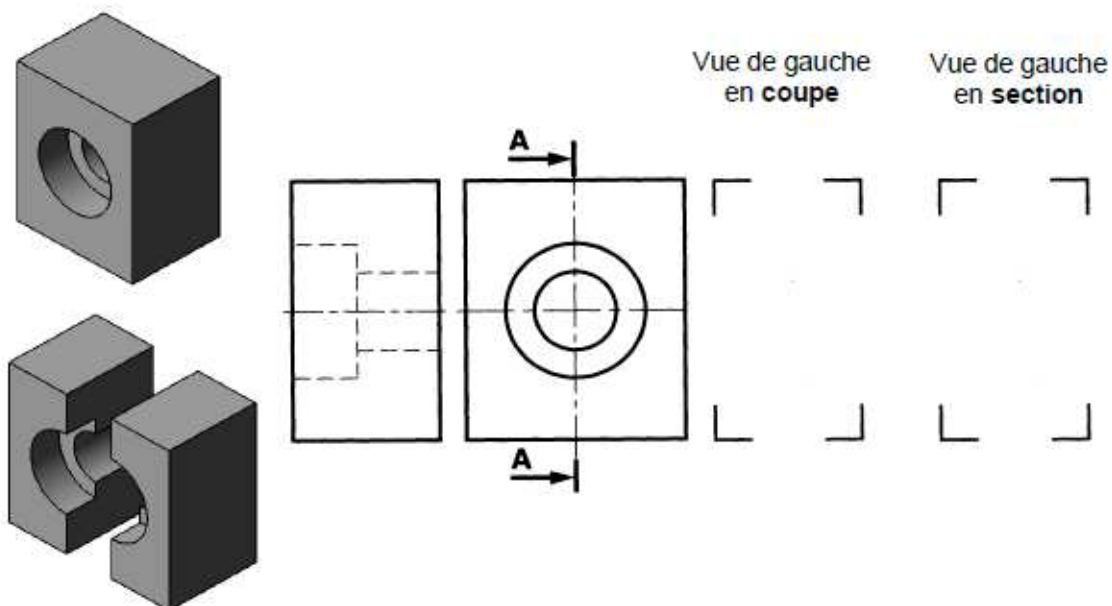
A4



XVII) Exercice 17 : Coupes & Sections

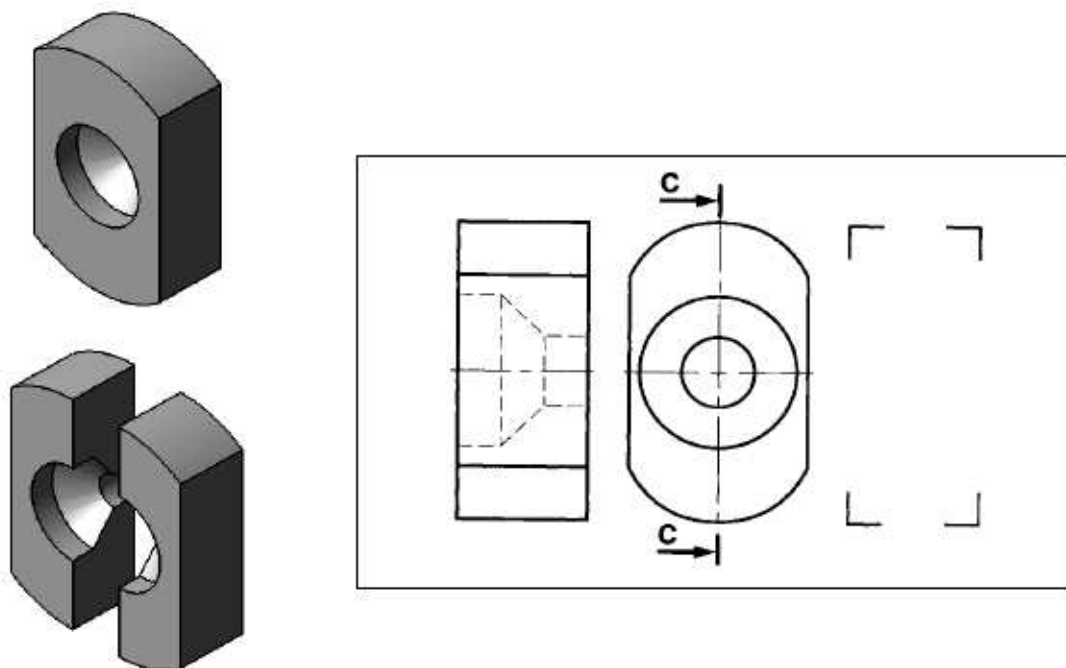
Q3.1- Dans les cadres prévus à cet effet, **REALISEZ** la vue de gauche en coupe **A-A** pour la pièce ci-dessous. Puis la vue de gauche en **section**.

Matière de la pièce: Aluminium



Q3.2- Dans le cadre prévu à cet effet, **REALISEZ** la vue de gauche en coupe **C-C** pour la pièce ci-dessous.

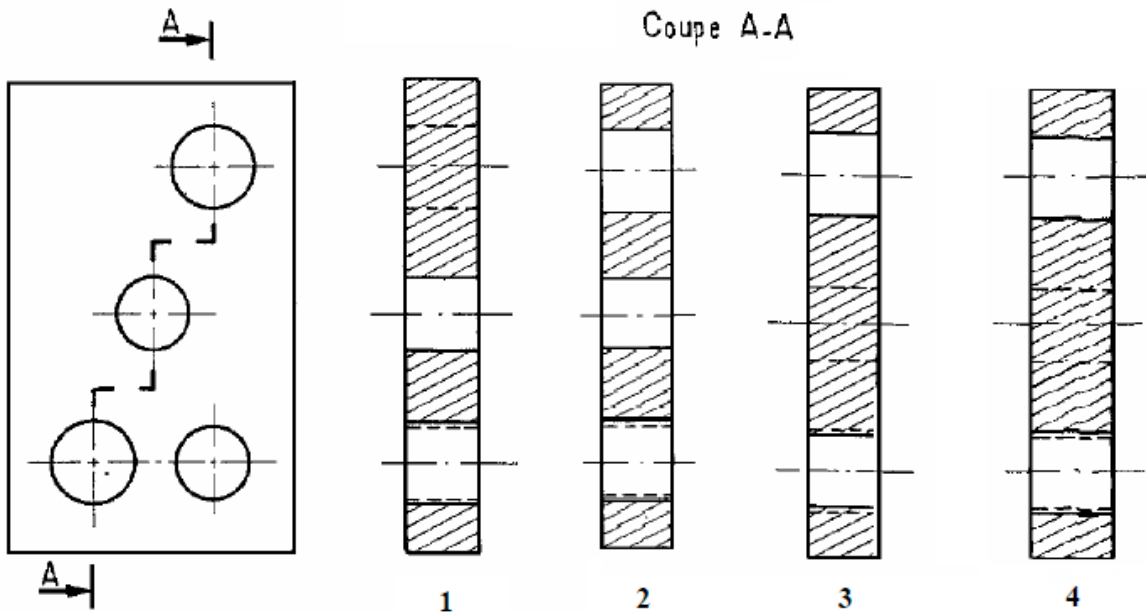
Matière de la pièce: Bronze



XVIII) Exercice 18 : Coupe brisée

Cocher dans le tableau la bonne représentation.

1	2	3	4



XIX) Exercice 19 : Représentation spatiale & développée

1

A

B

C

D

2

A

B

C

D

3

A

B

C

D

4

A

B

C

D

5

A

B

C

D

6

A

B

C

D

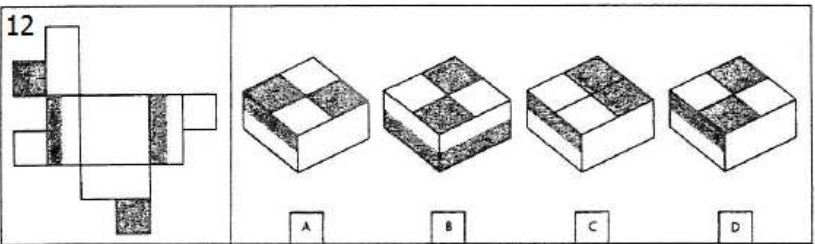
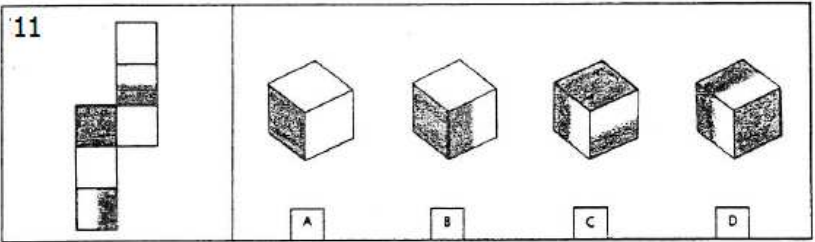
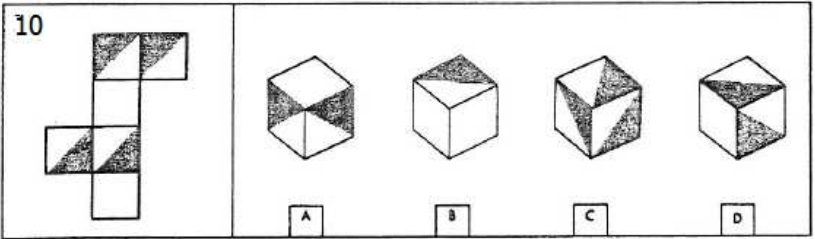
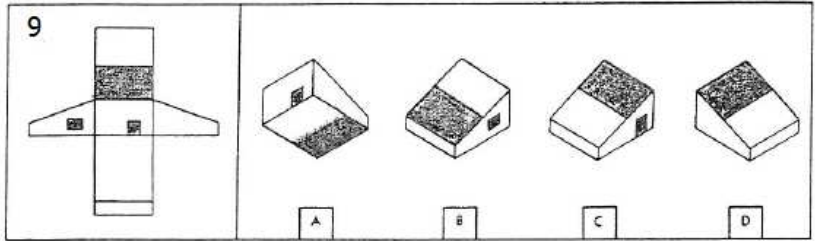
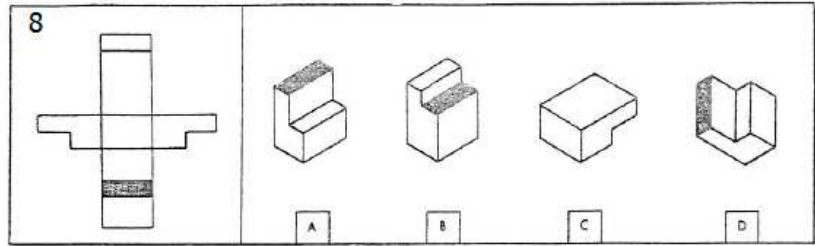
7

A

B

C

D

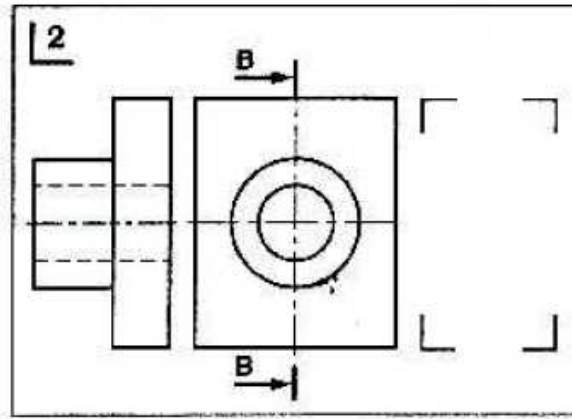
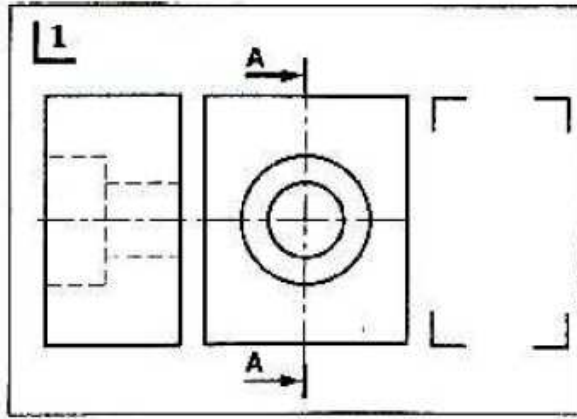


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XX) EXERCICE 20

Pour chaque exercice, tracer la vue coupée manquante. Utiliser le plan de coupe indiqué.

Exercices 1-2-4-5-7-11-13-14-15 :faire une coupe classique.

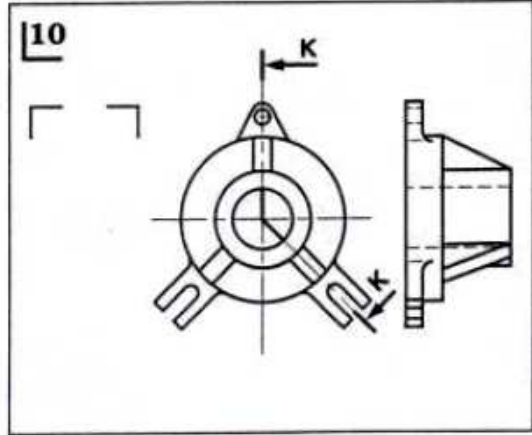
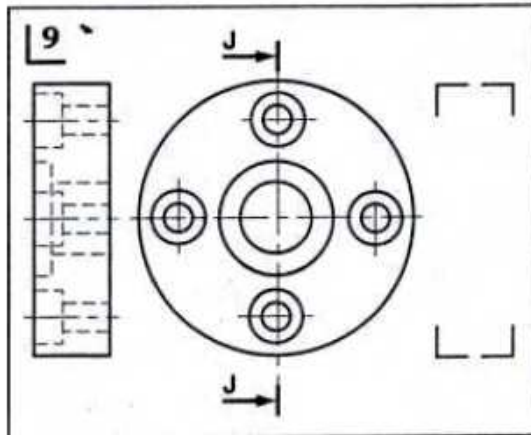
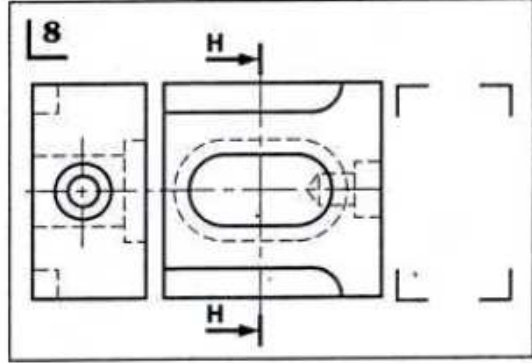
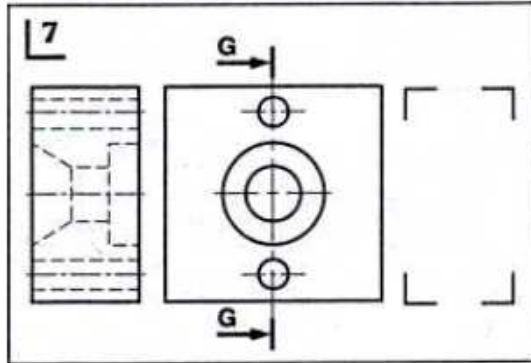
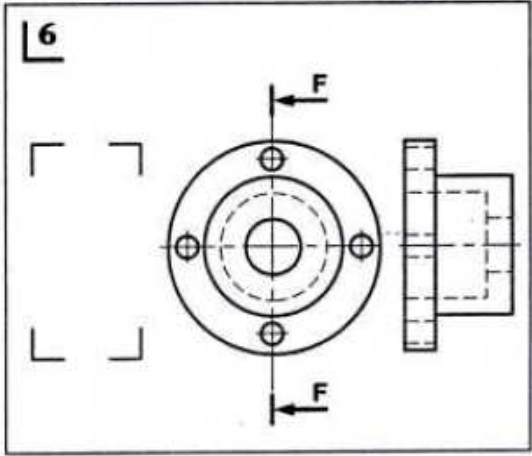
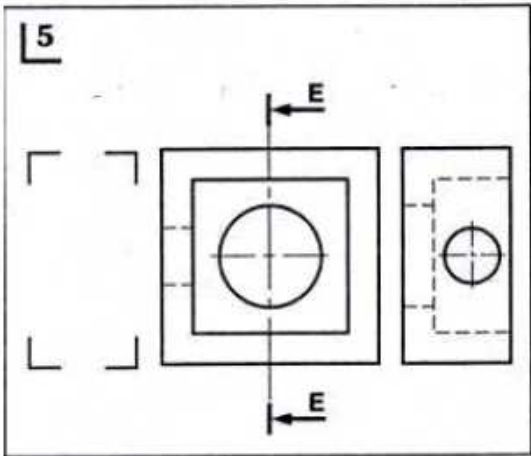
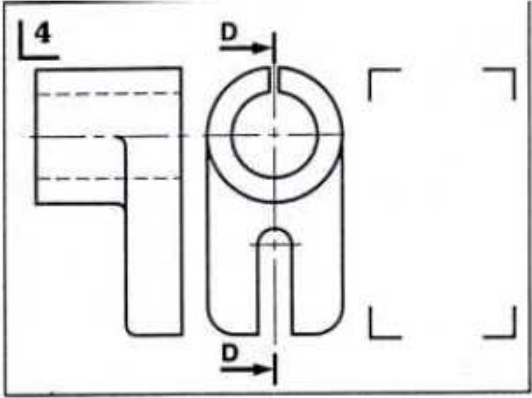
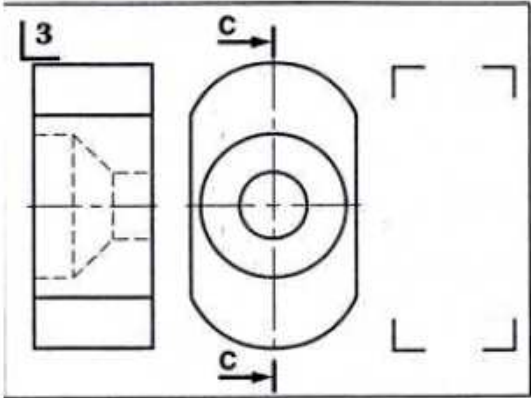


Exercices 3-6-9 :faire une demi-coupe.

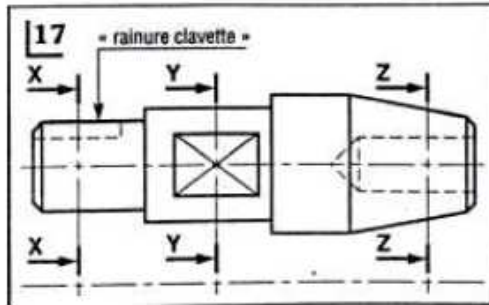
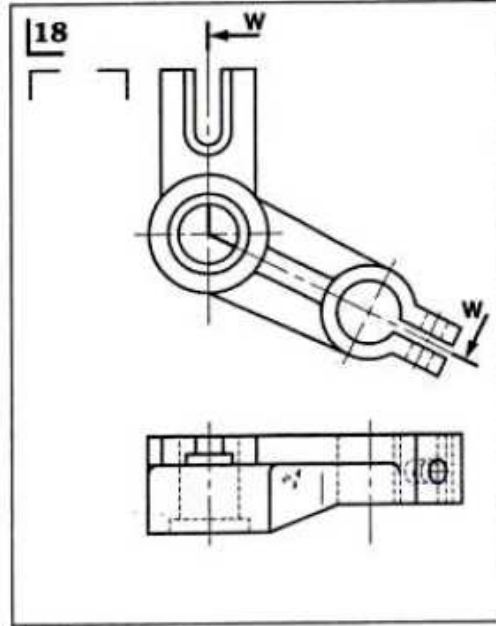
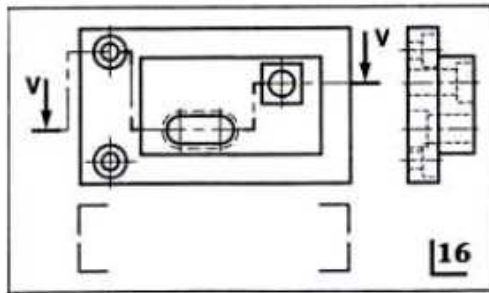
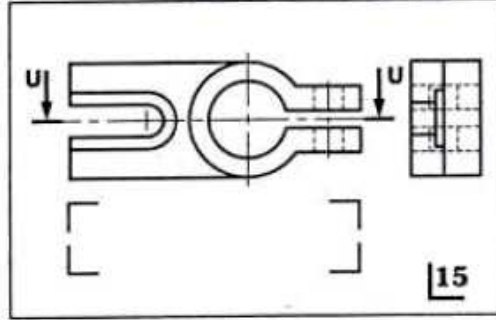
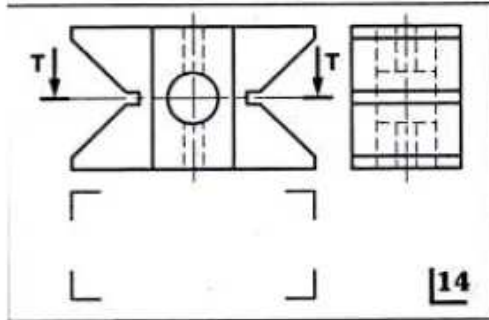
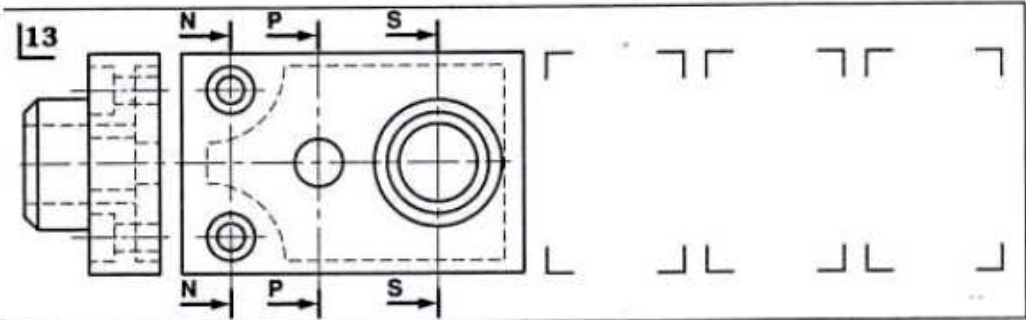
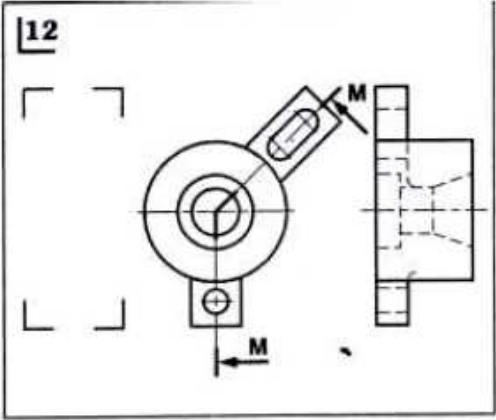
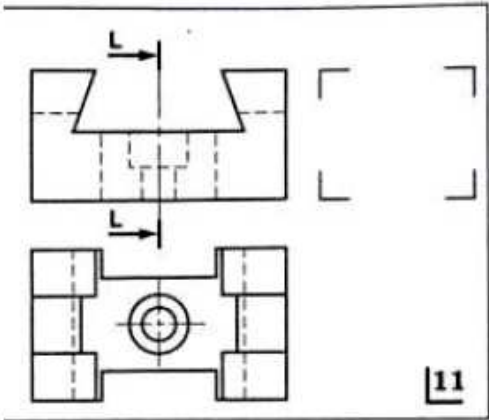
Exercices 10-12-16-18 :faire une coupe brisée.

Exercice 17 : faire les section sorties.

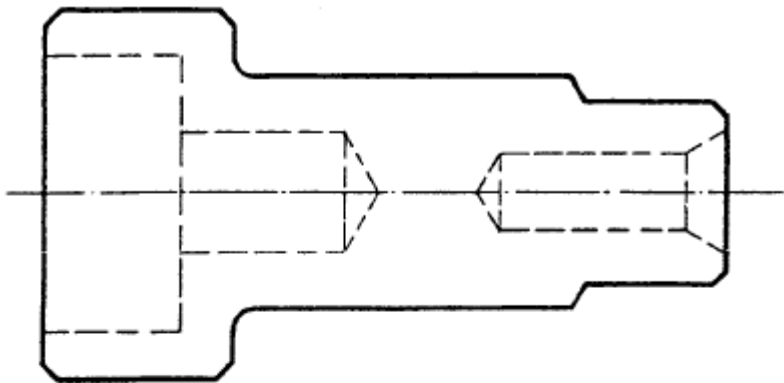
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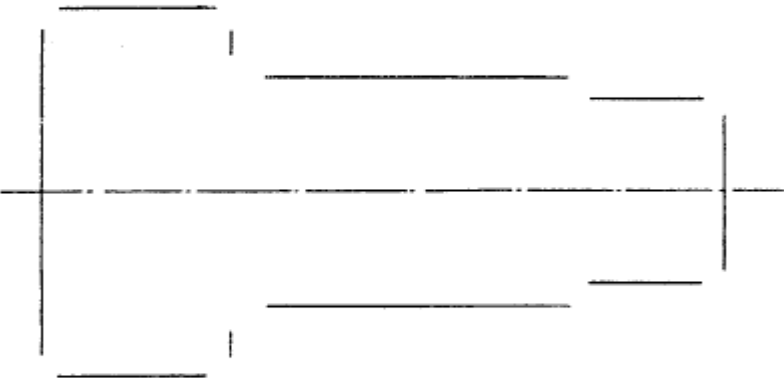
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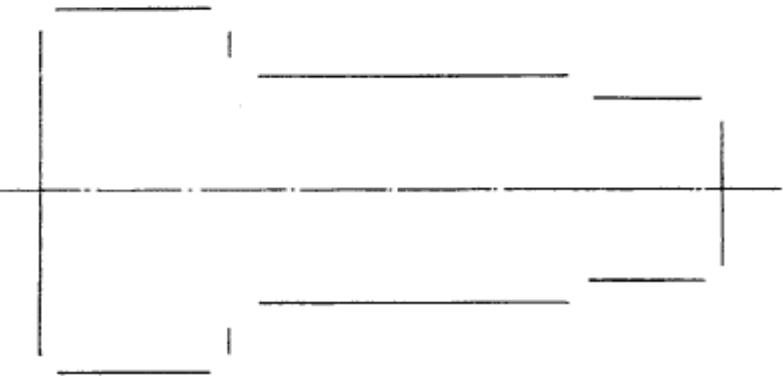
XXI) EXERCICE 21



Complétez le dessin.



Exécutez une représentation en coupe totale.

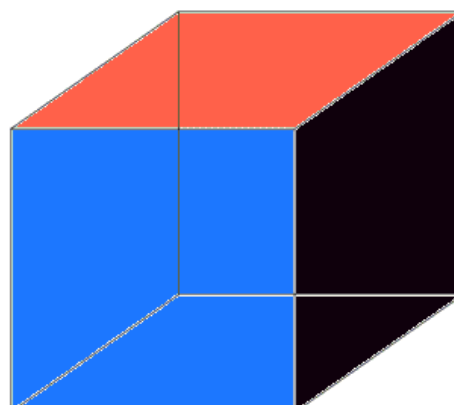
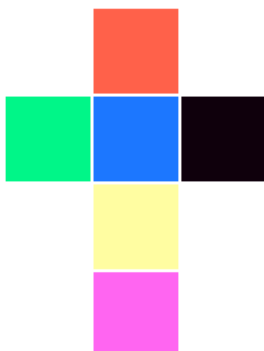
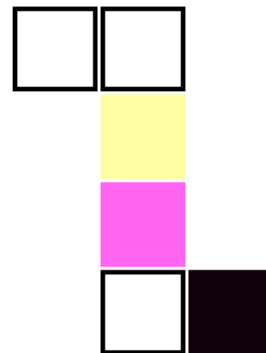
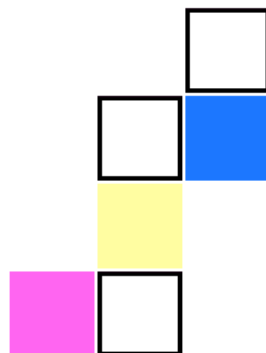
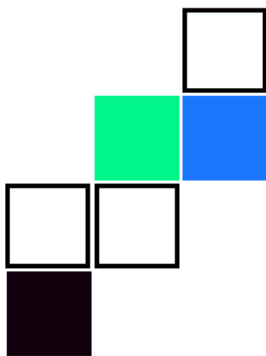
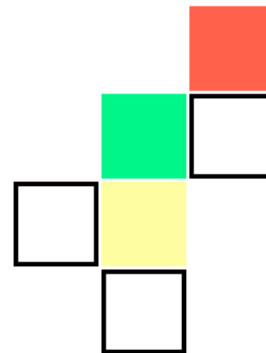
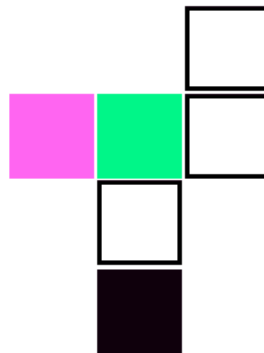
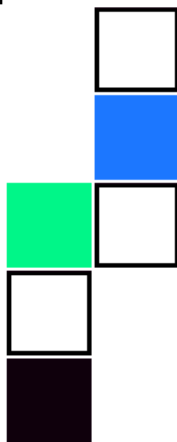
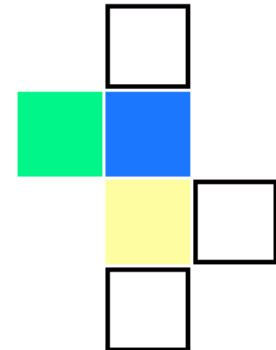
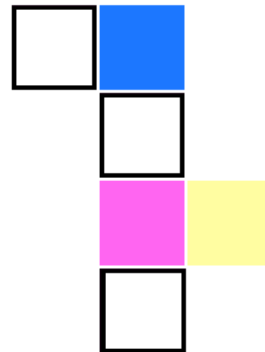
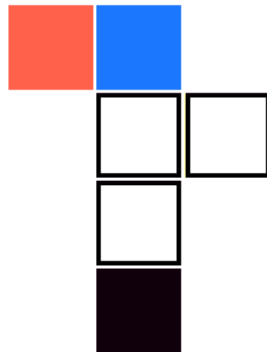
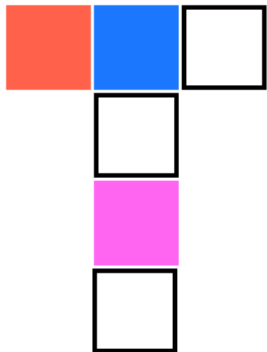


Exécutez une représentation avec coupe locale (partie gauche).

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XXII) EXERCICE 22

A partir du modèle du bas et de la représentation 3D , remplir les cases de chaque patron de cube avec la bonne couleur



XXIII) EXERCICE 23

Réaliser les coupes & sections A-A pour les pièces suivantes

