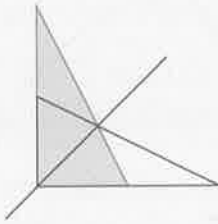


*Concetti des exercices*

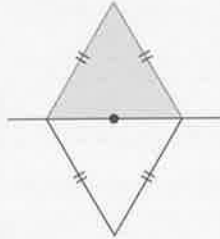
**Connaître**

X 1

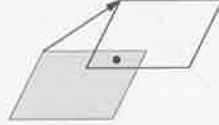
Symétrie orthogonale



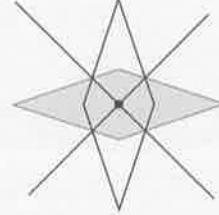
Symétrie orthogonale  
Symétrie centrale



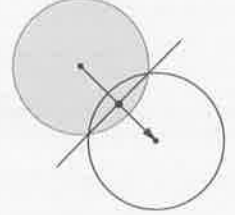
Translation  
Symétrie centrale



Symétries orthogonales  
Rotations



Symétrie orthogonale  
Symétrie centrale  
Translation



X 2

$S_d : SE$   
 $r_{C,135^\circ} : O$

$S_d : NE$   
 $r_{C,-45^\circ} : O$

$S_d : N$   
 $r_{C,90^\circ} : N$

$S_C : E$   
 $r_{C,-225^\circ} : SE$

X 3

$S_O(A) = E$   
 $S_O(C) = G$   
 $S_O(D) = H$   
 $S_O(F) = B$

$r_{O,+135^\circ}(D) = G$   
 $r_{O,-135^\circ}(D) = A$   
 $r_{O,-90^\circ}(C) = A$   
 $r_{O,+225^\circ}(H) = E$

$S_O([AB]) = [EF]$   
 $S_O([FH]) = [BD]$   
 $S_O([BE]) = [FA]$   
 $S_O([CG]) = [GC]$

$r_{O,+45^\circ}(A) = B$   
 $r_{O,+45^\circ}(F) = G$   
 $r_{O,-45^\circ}(B) = A$   
 $r_{O,+90^\circ}(F) = H$

$S_O(ABC) = EFG$   
 $S_O(CDF) = GHB$   
 $S_O(CEH) = GAD$   
 $S_O(ACG) = EGC$

$r_{O,+90^\circ}([AB]) = [CD]$   
 $r_{O,+135^\circ}([EG]) = [HB]$   
 $r_{O,+45^\circ}([CA]) = [DB]$   
 $r_{O,+45^\circ}([DG]) = [EH]$

X 4

a) 1) V    2) F    3) V    4) V  
c) 1) V    2) F    3) V

b) 1) V    2) V    3) F  
d) 1) V    2) V    3) V

X 5

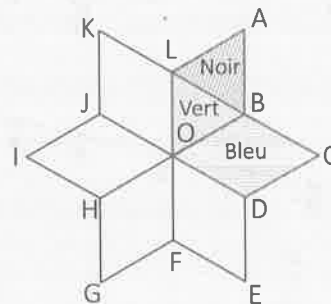
a) D    b) [DE]    c) D    d) BE    e) B sur C ou A sur O ou O sur D ou F sur E

X 6

$S_{OD}(B) = B$      $R_{C,+90^\circ}(B) = D$

X 7

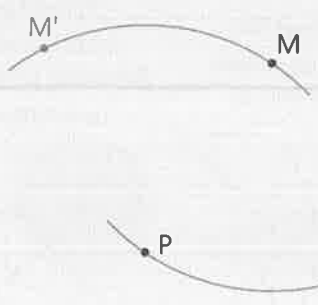
Le losange CBOD est hachuré en bleu.  
Le triangle BOL est hachuré en vert.  
 $t_{\overline{HD}}(I) = O$   
Le triangle BAL est hachuré en noir.  
 $120^\circ$  ou  $-240^\circ$



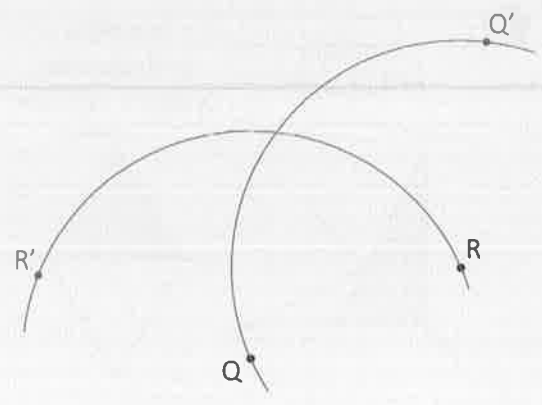
**Appliquer**

2

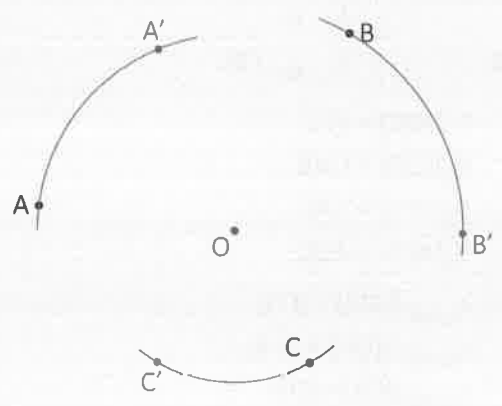
X 1



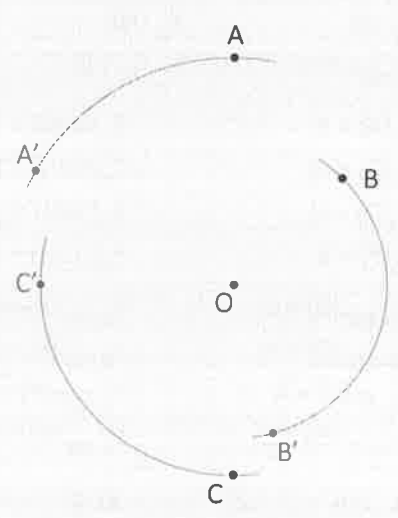
X 2



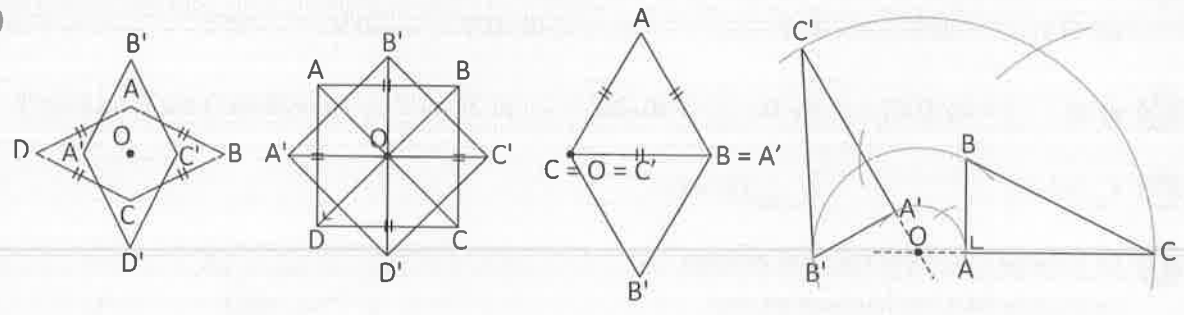
X 3 a)



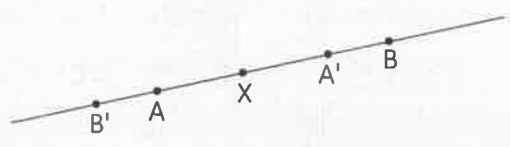
b)



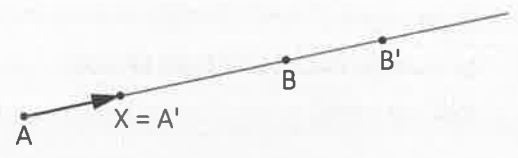
X 4



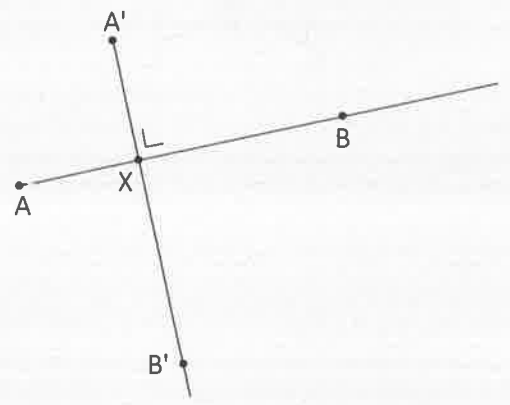
5 a)



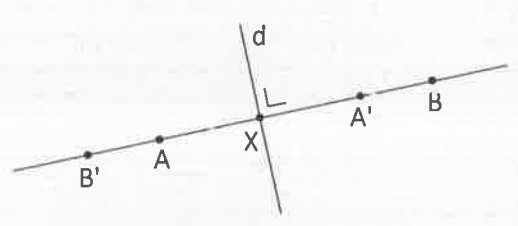
b)

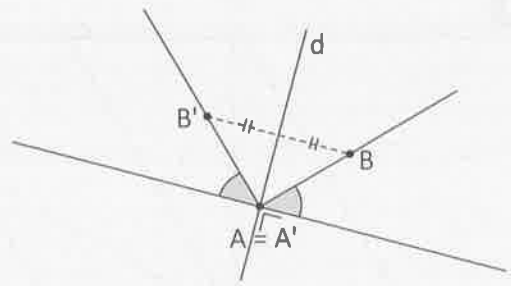
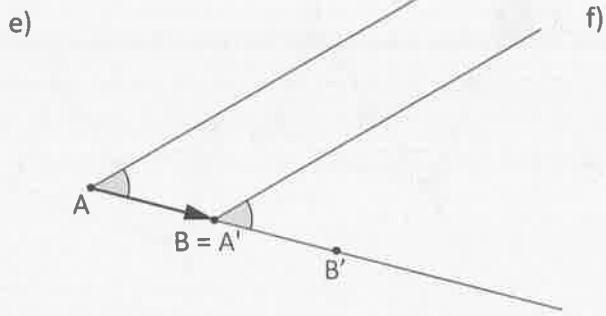


c)



d)



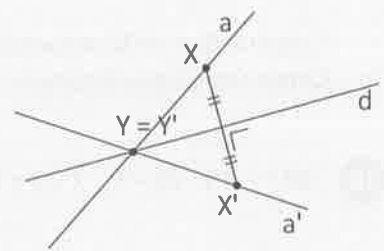
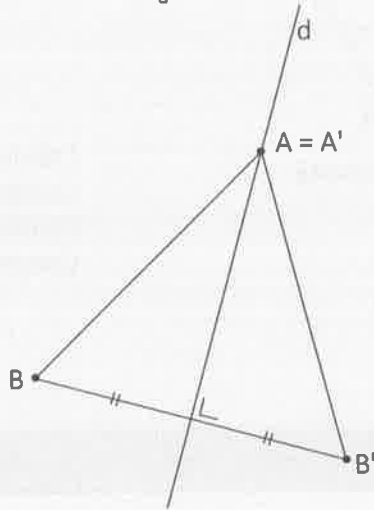
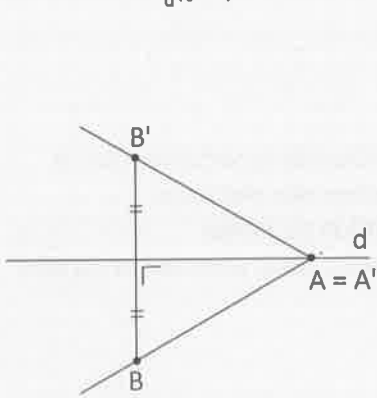


X 6

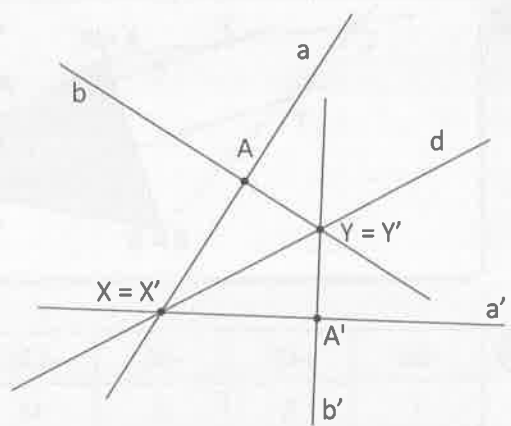
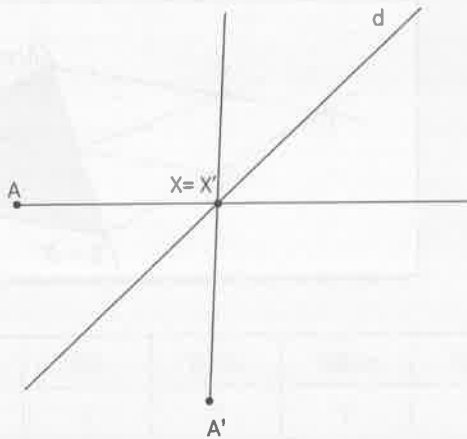
$S_d([AB])$

$S_d([AB])$

$S_d(a)$

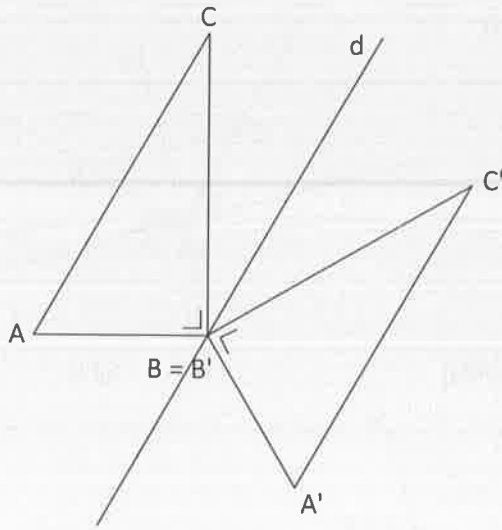


X 7



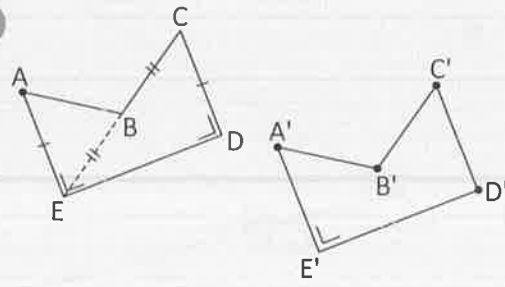
2

X 8



Conservation de la perpendicularité  
Conservation des distances

X 9

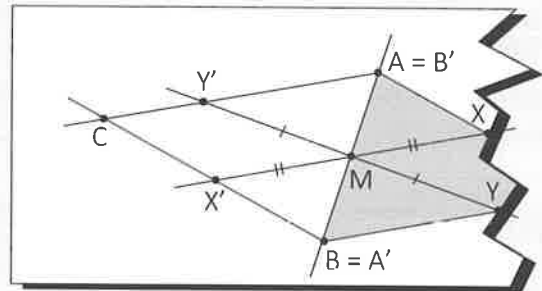
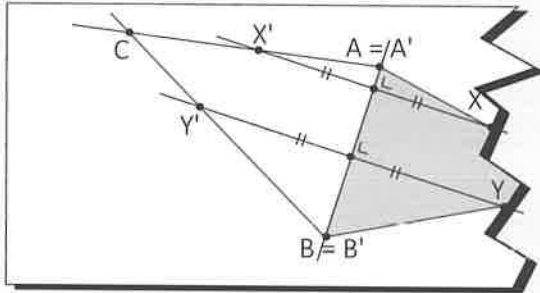


Conservation de la perpendicularité  
Conservation des distances  
Conservation du milieu  
Conservation de la direction et du sens

X 10  $|SR| = (14 : 2) - 3 = 7 - 3 = 4$

## Transférer

X 1



X 2

+90°	+45°	-90°	-135°	-60°	+180°	+150°	-90°	+120°
I	S	O	M	E	T	R	I	E