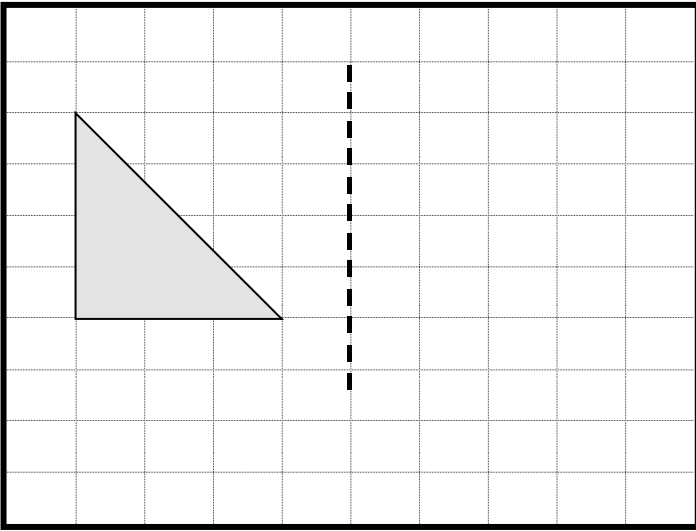


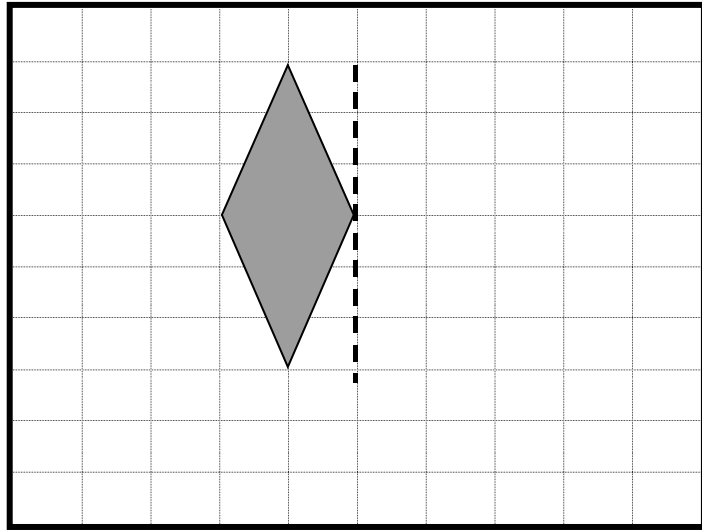
Reflection

1. In each diagram below the dotted line is an axis of symmetry. Copy and complete each shape.

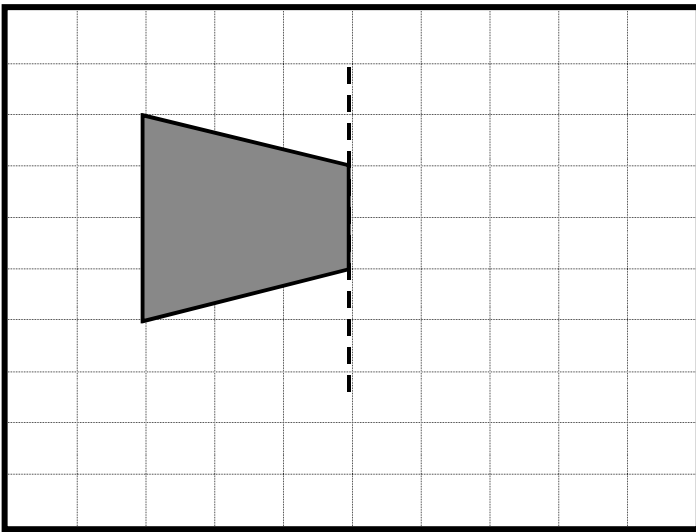
(a)



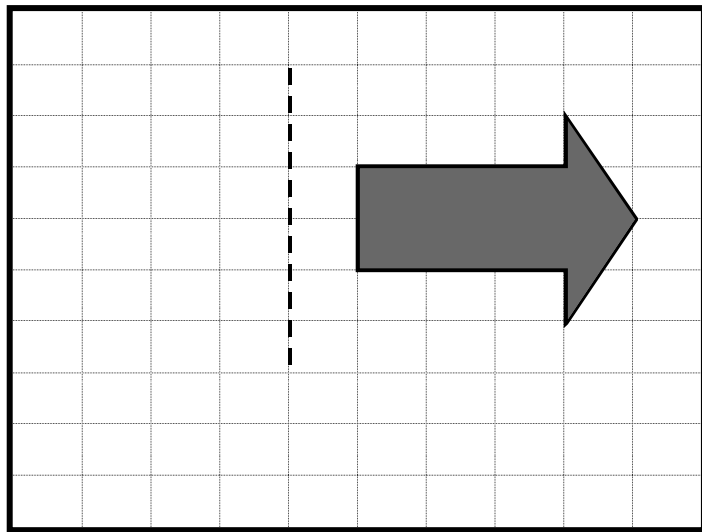
(b)



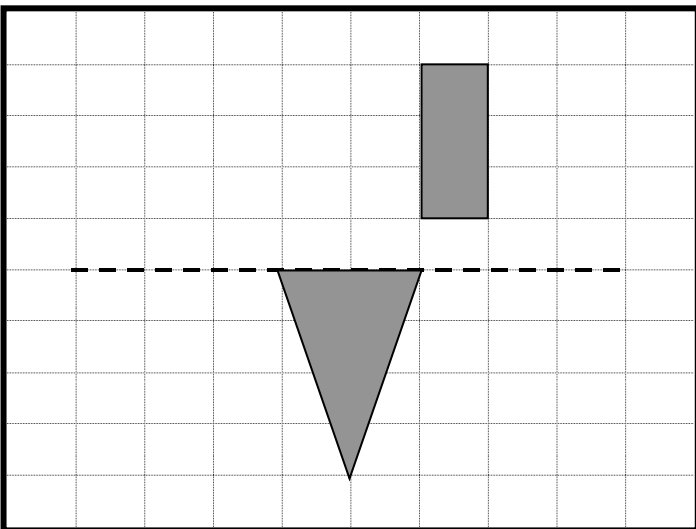
(c)



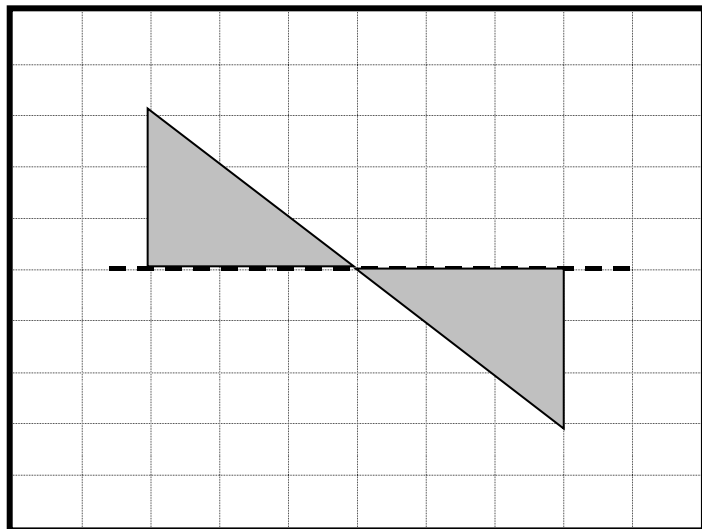
(d)



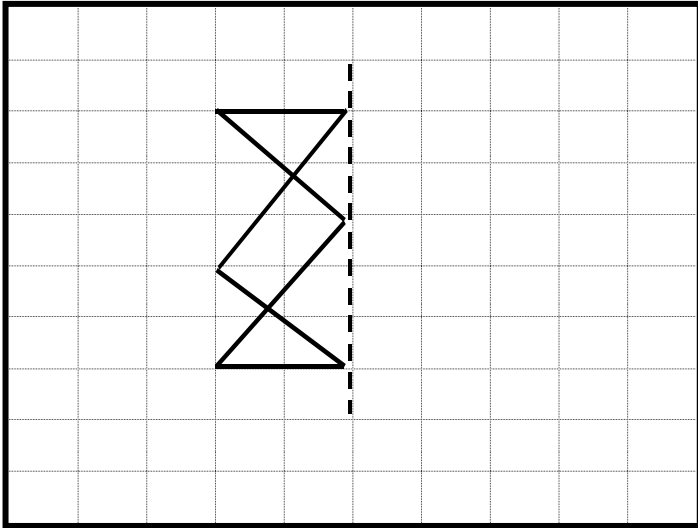
(e)



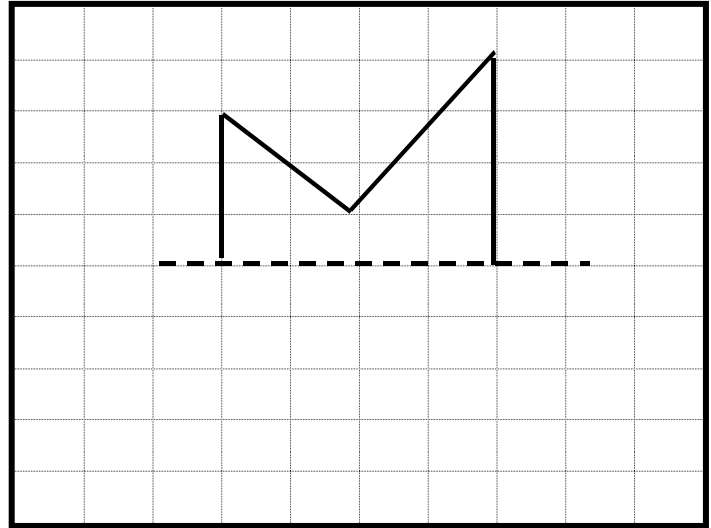
(f)



(g)

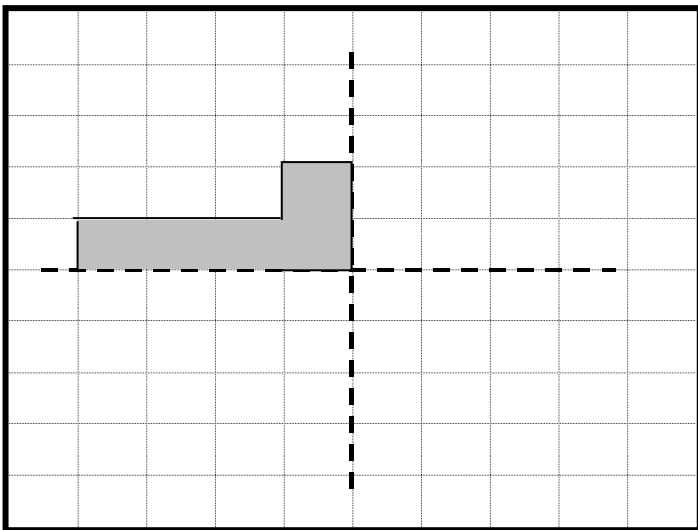


(h)

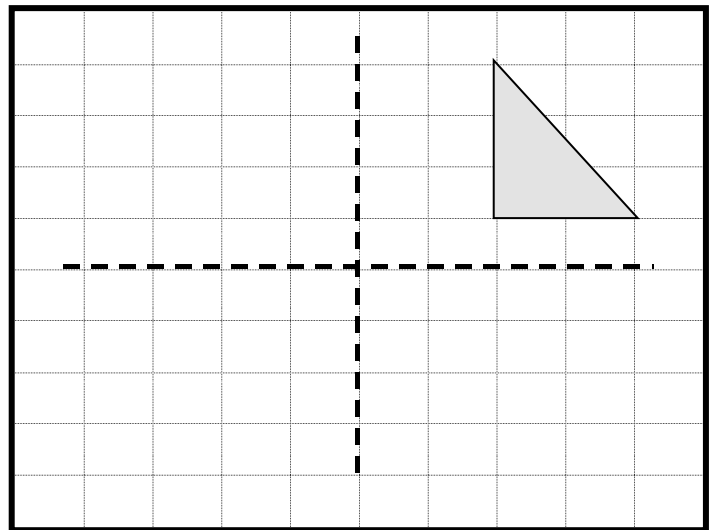


2. In each question below, each shape has two axes of symmetry, shown as dotted lines. Copy and complete each shape.

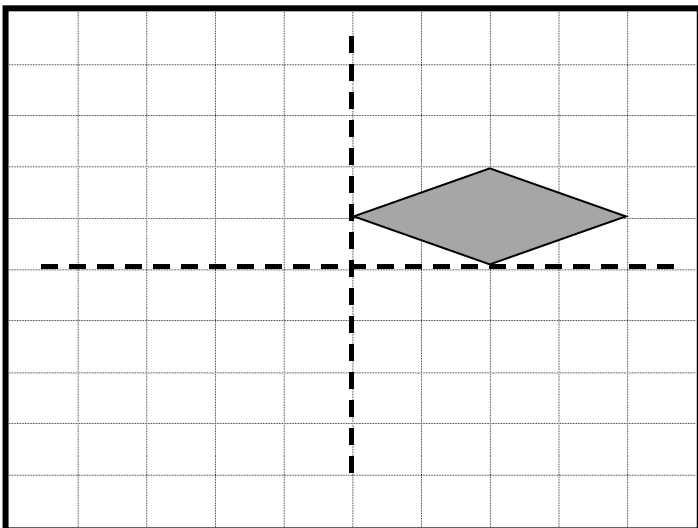
(a)



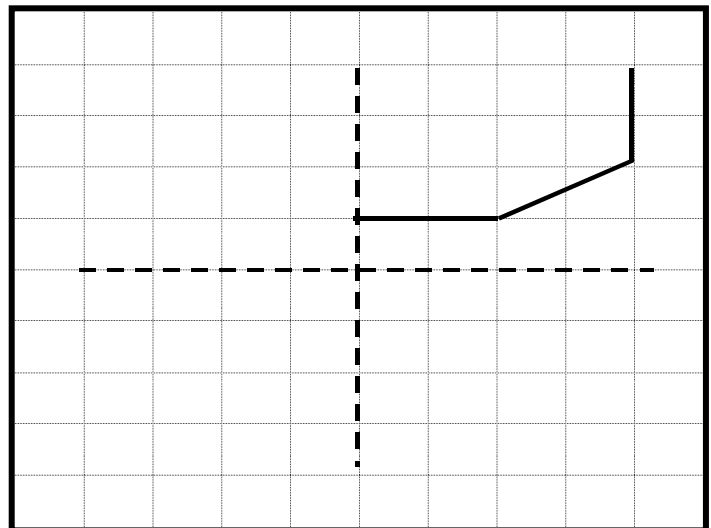
(b)



(c)

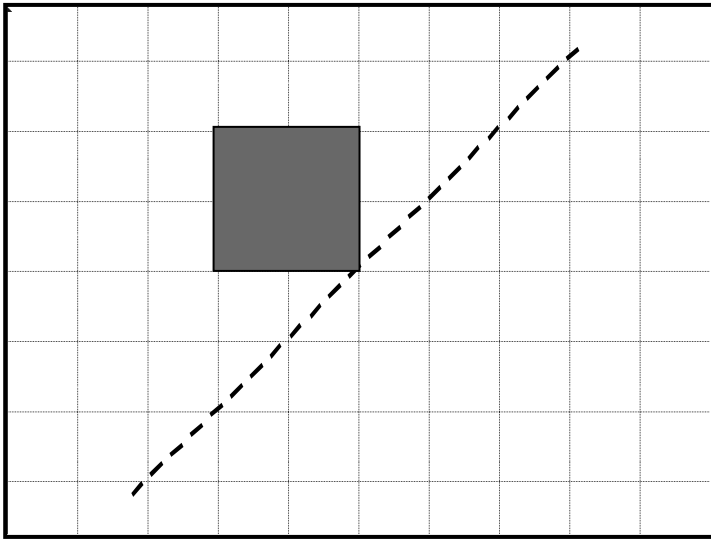


(d)

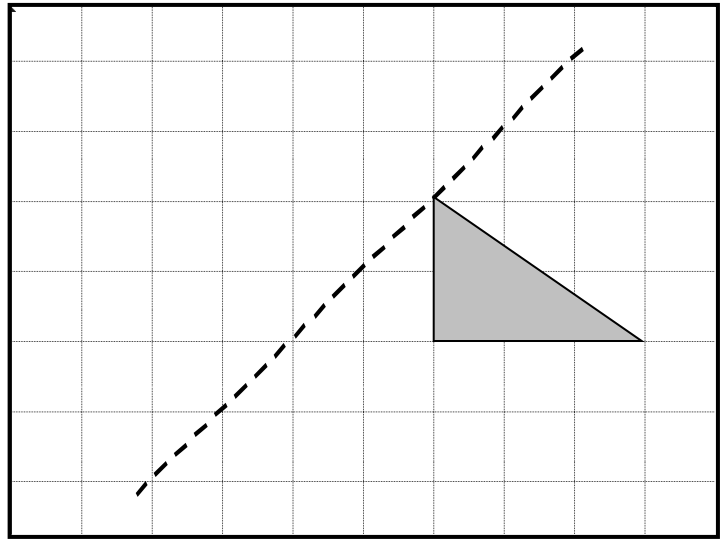


3. In each question below the diagonal dotted line is a line of symmetry.
Copy and complete each shape.

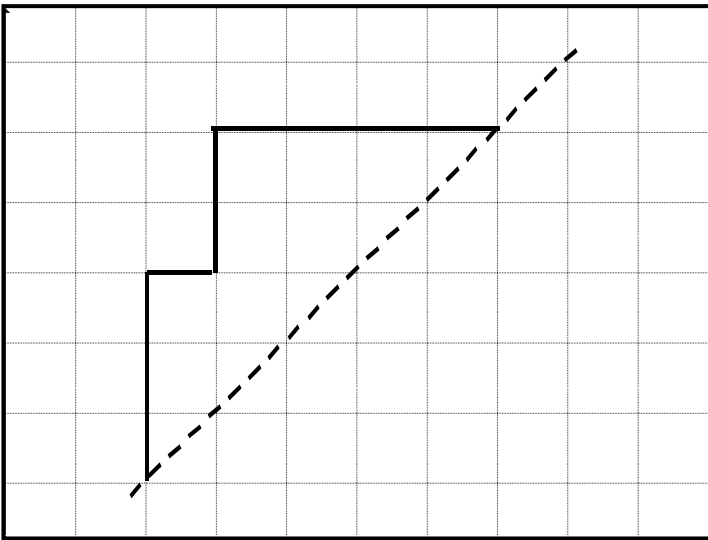
(a)



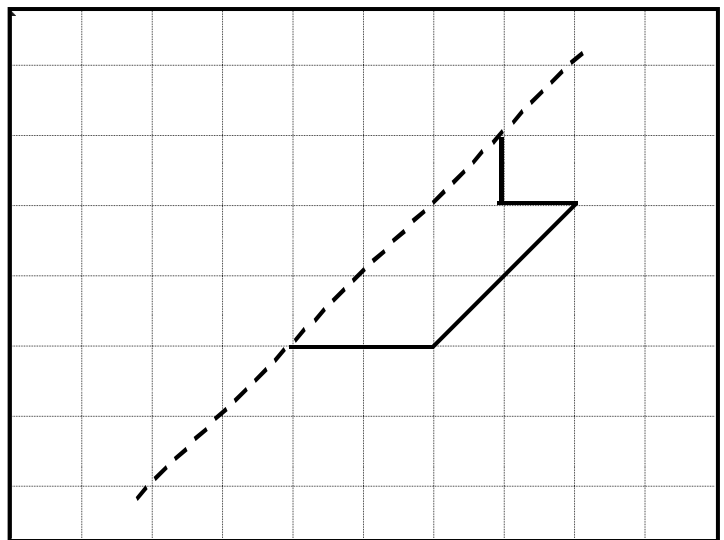
(b)



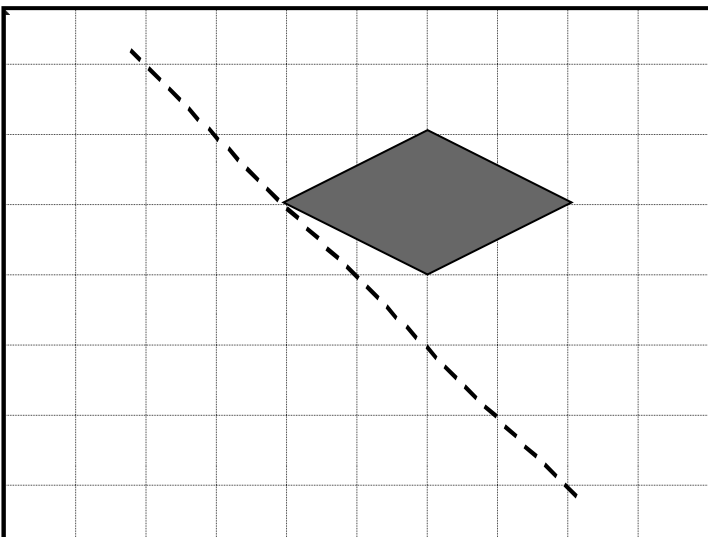
(c)



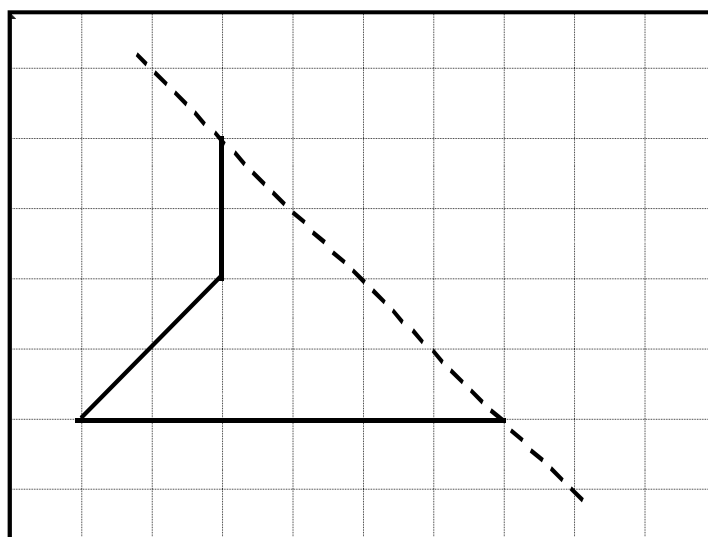
(d)



(e)

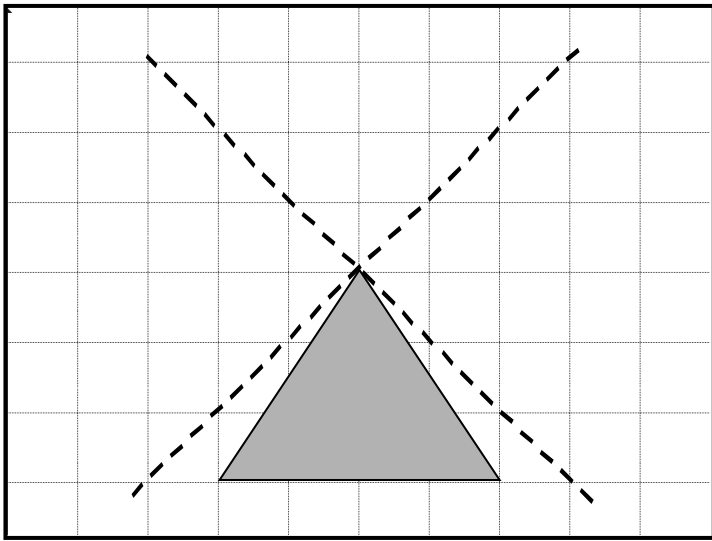


(f)

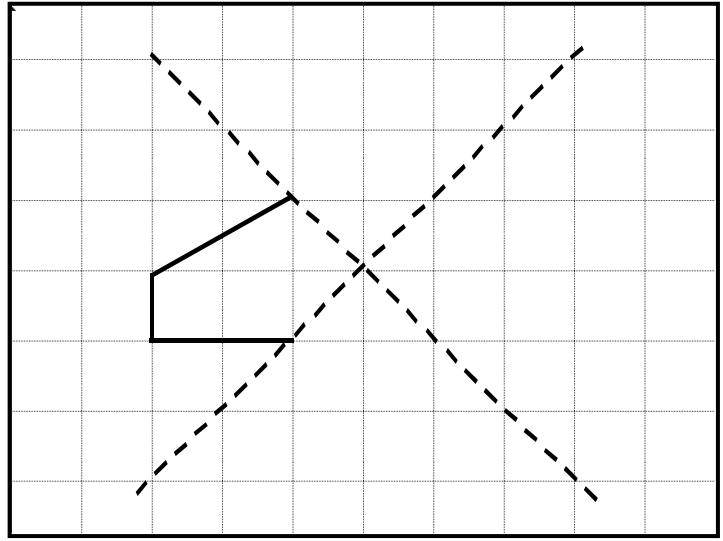


4. In each diagram below both dotted lines are lines of symmetry.
Copy and complete each shape.

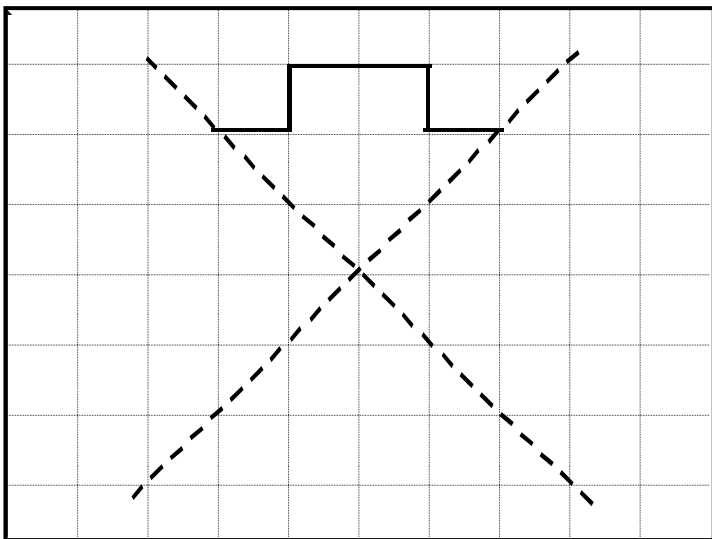
(a)



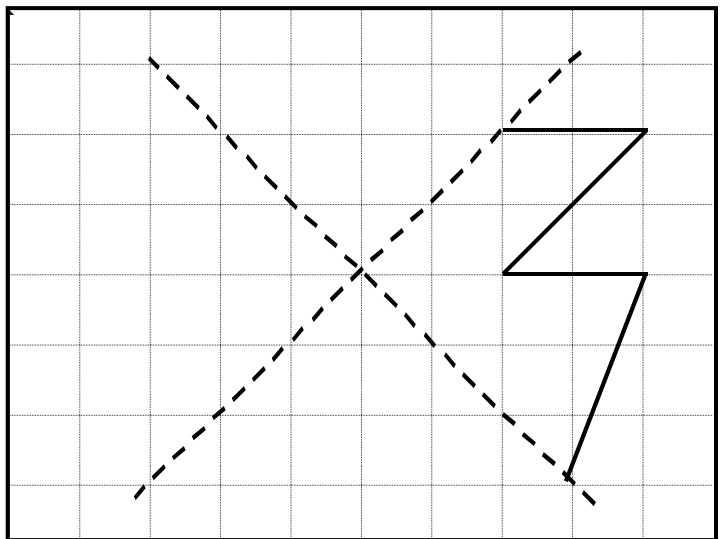
(b)



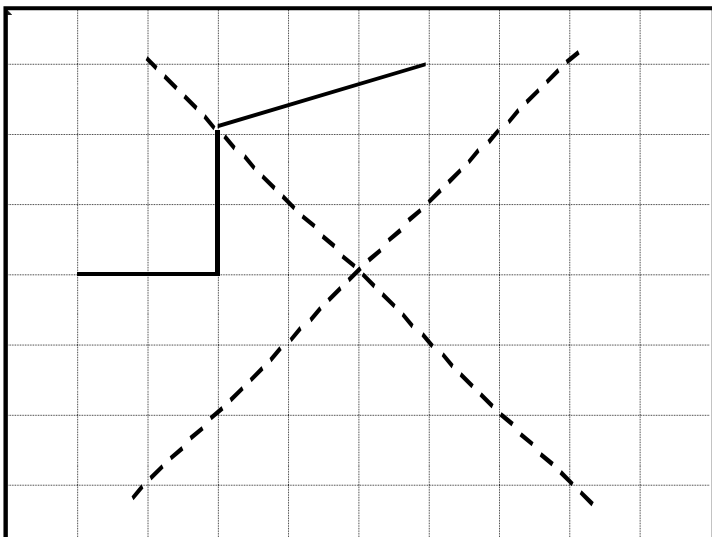
(c)



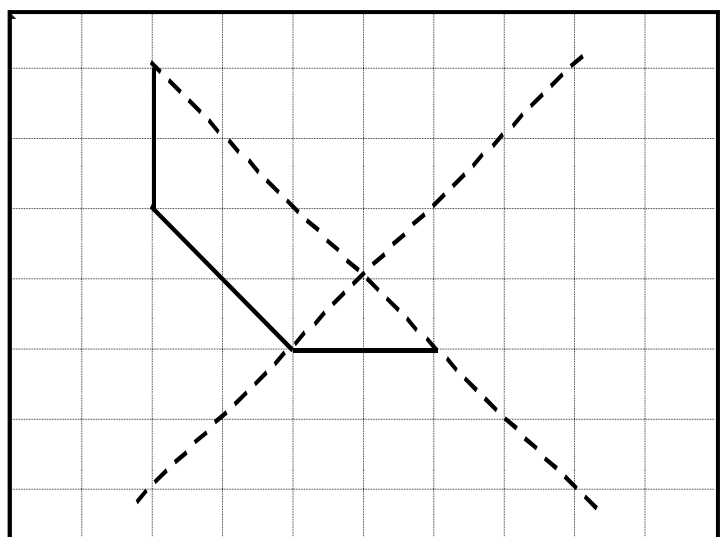
(d)



(e)



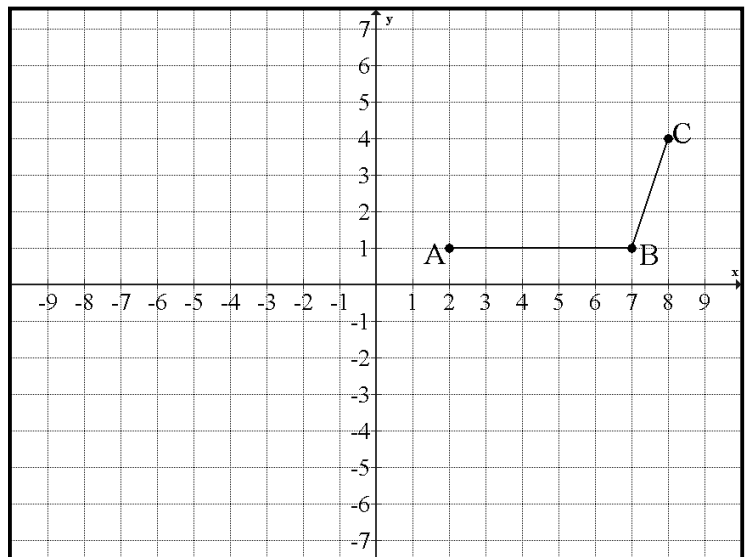
(f)



5. In the diagram opposite, AB and BC are two sides of a parallelogram ABCD.

(a) Copy the diagram and plot the point D to complete the parallelogram.

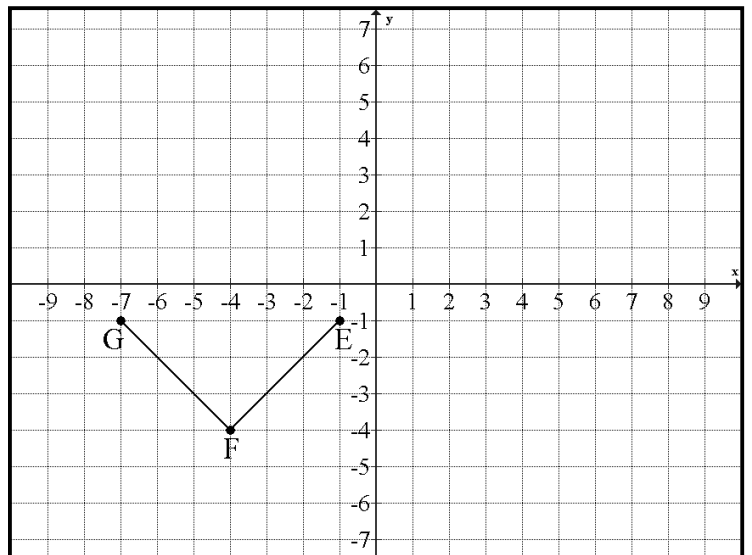
(b) Reflect ABCD in the x-axis.



6. The points E(-1,-1), F(-4,-4) and G(-7,-1) are shown opposite.

(a) Copy the diagram and plot H so that EFGH is a square.

(b) Reflect the square EFGH in the x-axis.

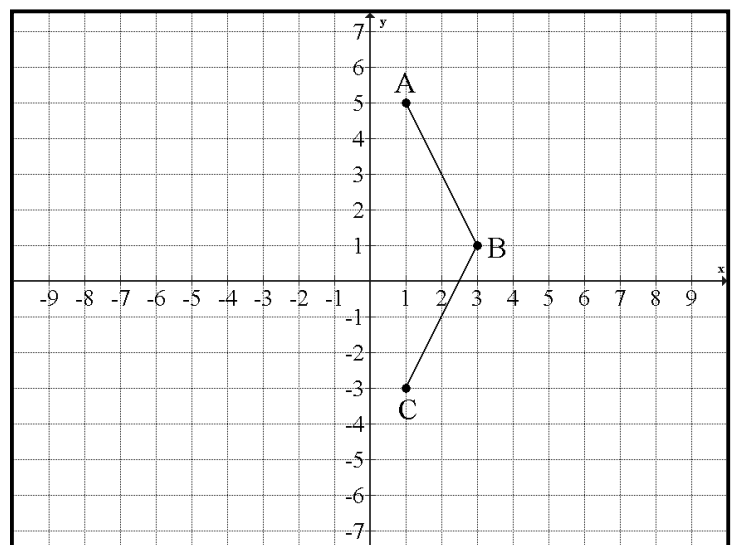


7. ABCD is a rhombus.

A has coordinates (1,5), B is (3,1) and C is (1,-3).

(a) Copy the diagram and plot the point D.

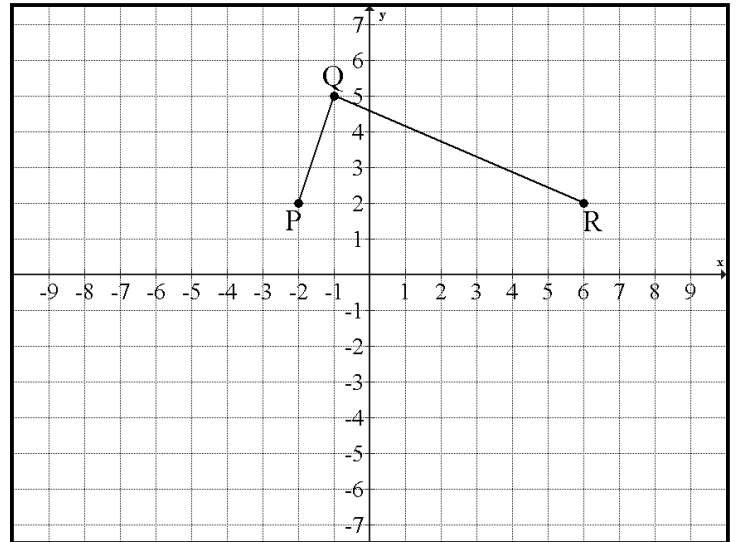
(b) Find the image of ABCD after it has been reflected in the y-axis.



8. P is the point $(-2,2)$, Q is $(-1,5)$ and R is $(6,2)$.

(a) Copy the diagram and find S given PQRS is a kite.

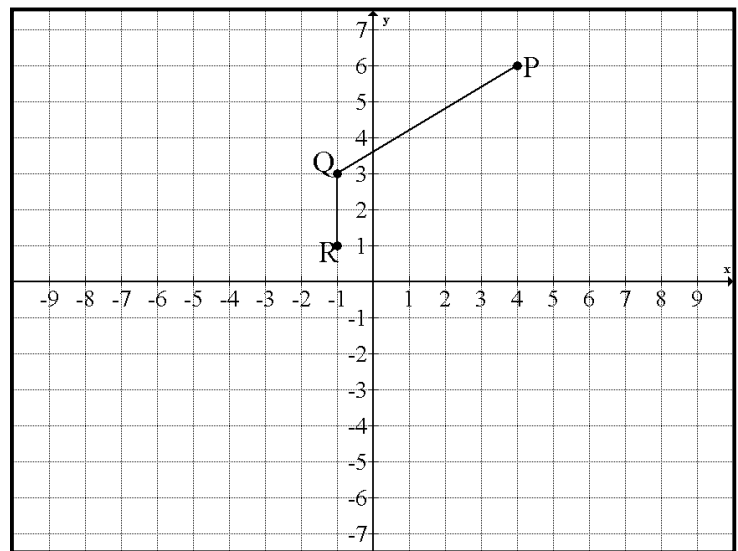
(b) Reflect PQRS in the y-axis.



9. PQRS is a kite with P $(4,6)$, Q $(-1,3)$ and R $(-1,1)$.

(a) Copy the diagram and plot the point S.

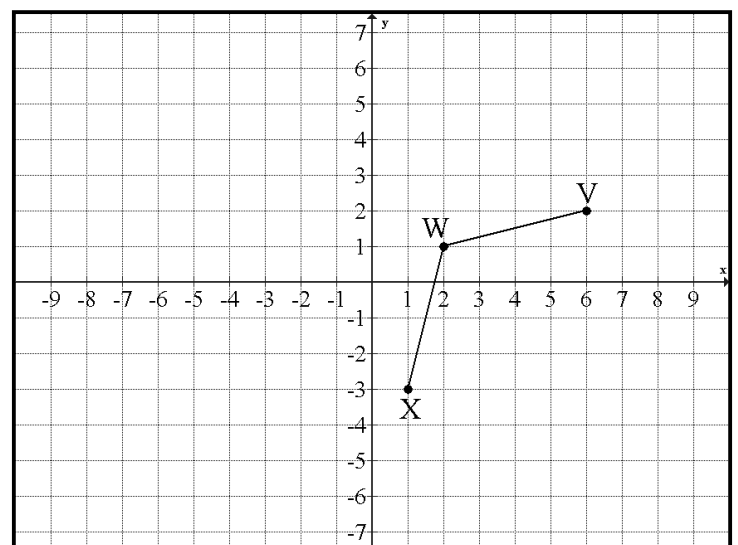
(b) Reflect PQRS in the y-axis.



10. VWXY is a rhombus. V has coordinates $(6,2)$, W is $(2,1)$ and X is $(1,-3)$.

(a) Copy the diagram and plot the point Y.

(b) Reflect VWXY in the x-axis.



11. (a) Plot the points $R(-4,3)$, $S(-6,1)$ and $T(0,-5)$.
(b) Plot the point U so that $RSTU$ is a rectangle.
(c) Reflect the rectangle $RSTU$ in the x -axis.
12. (a) Plot the points $E(7,2)$, $F(1,1)$ and $G(0,-1)$.
(b) Find H , given $EFGH$ is a parallelogram.
(c) Reflect $EFGH$ in the x -axis.
13. (a) Plot the points $A(1,3)$, $B(-2,4)$ and $C(-5,-3)$.
(b) $ABCD$ is a kite. Find the point D .
(c) Reflect the kite $ABCD$ in the y -axis.
14. $ABCD$ is a square.
(a) Plot the points $A(-2,0)$, $B(2,4)$ and $C(6,0)$.
(b) Plot the point D .
(c) Reflect the square $ABCD$ in the y -axis.
15. (a) Plot the points $K(-3,-4)$, $L(-1,2)$ and $M(5,4)$.
(b) Find a point N so that $KLMN$ is a rhombus.
(c) Reflect the rhombus $KLMN$ in the x -axis.