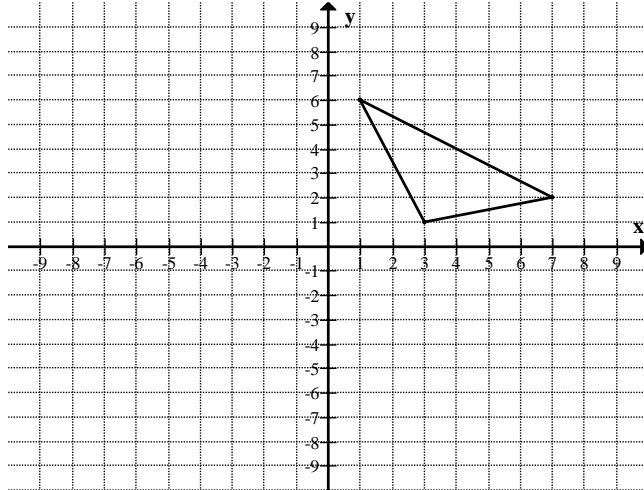
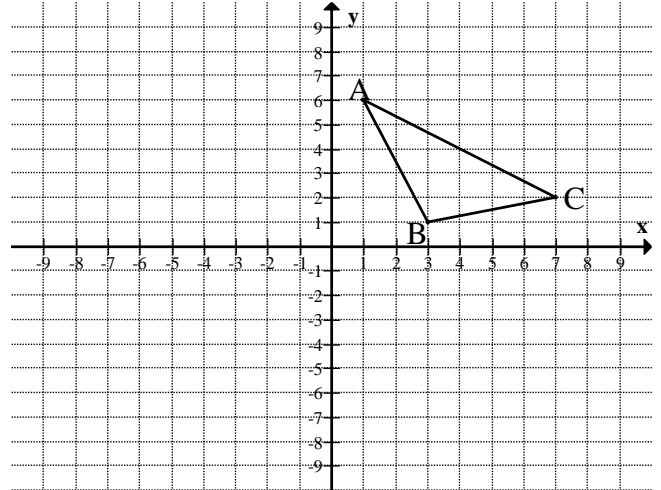


### Reflections Worksheet

1. Give the coordinates of ABC. Reflect over the y-axis. Then give the coordinates of A'B'C'



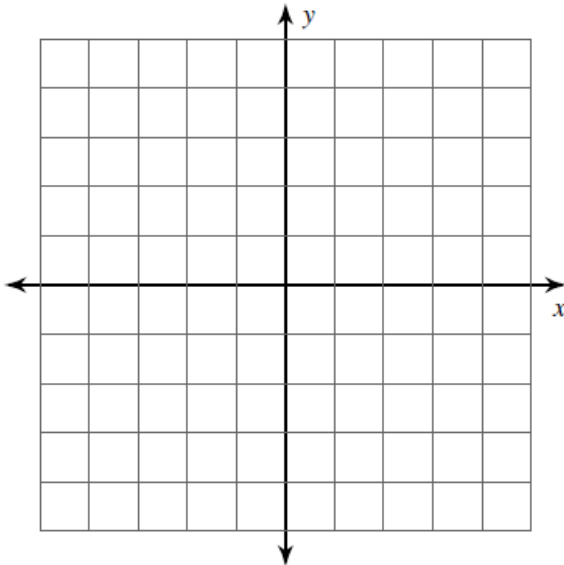
2. Give the coordinates of ABC. Reflect over the x-axis. Then give the coordinates of A'B'C'



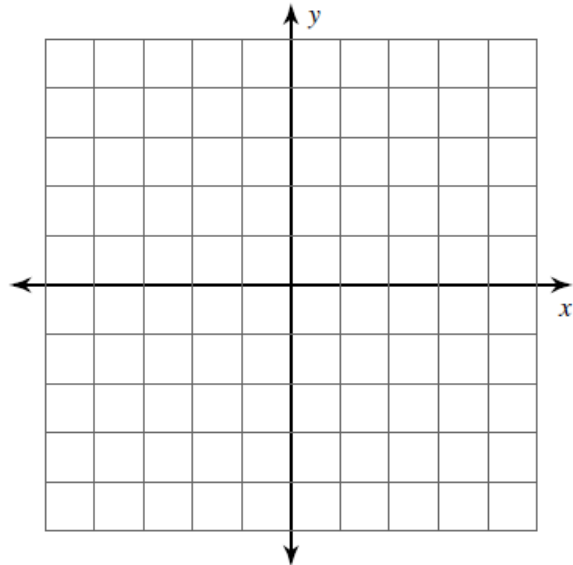
1.  
 A (    )    A' (    )  
 B (    )    B' (    )  
 C (    )    C' (    )

2.  
 A (    )    A' (    )  
 B (    )    B' (    )  
 C (    )    C' (    )

3. Plot  $E(-4, -3)$ ,  $F(-4, -1)$ ,  $G(0, -2)$ . Reflect across the x-axis. Give the coordinates of E'F'G'.



4. Plot  $A(1, 0)$ ,  $B(0, 3)$ ,  $C(1, 3)$ ,  $D(4, -1)$ . Reflect across the y-axis. Give the coordinates of A'B'C'D'.



3.  
 E' (    )  
 F' (    )  
 G' (    )

4.  
 A' (    )  
 B' (    )  
 C' (    )  
 D' (    )

**Find the coordinates of the vertices of each figure after the given transformation.**

1) Reflection across the x-axis

$F(-5, -3), R(-3, 0), N(0, -1)$

$F' ( \quad ) \quad R' ( \quad ) \quad N' ( \quad )$

6) Reflection across the x-axis

$X(1, 0), K(4, 1), T(5, -3)$

$X' ( \quad ) \quad K' ( \quad ) \quad T' ( \quad )$

2) Reflection across the x-axis

$B(-2, 1), S(-2, 2), R(3, 3), J(2, -2)$

$B' ( \quad ) \quad S' ( \quad ) \quad R' ( \quad ) \quad J' ( \quad )$

7) Reflection across the y-axis

$R(-1, 0), L(-1, 1), X(3, -1), D(1, -3)$

$R' ( \quad ) \quad L' ( \quad ) \quad X' ( \quad )$

$D' ( \quad )$

3) Reflection across the x-axis

$M(0, -1), S(3, 2), Q(5, -3)$

$M' ( \quad ) \quad S' ( \quad ) \quad Q' ( \quad )$

8) Reflection across the x-axis

$W(0, 2), F(1, 5), E(4, 3), R(3, 0)$

$W' ( \quad ) \quad F' ( \quad ) \quad E' ( \quad )$

$R' ( \quad )$

4) Reflection across the y-axis

$V(3, -5), E(1, -2), F(3, 0), M(5, -2)$

$V' ( \quad ) \quad E' ( \quad ) \quad F' ( \quad ) \quad M' ( \quad )$

9) Reflection across the x-axis

$U(4, 2), V(2, 4), N(5, 4)$

$U ( \quad ) \quad V' ( \quad ) \quad N' ( \quad )$

5) Reflection across the y-axis

$B(1, 3), H(4, 4), D(4, -1)$

$B' ( \quad ) \quad H' ( \quad ) \quad D' ( \quad )$

10) Reflection across the y-axis

$J(-1, -3), A(-1, -1), P(0, 0)$

$J' ( \quad ) \quad A' ( \quad ) \quad P' ( \quad )$

WRITE THE REFLECTION COORDINATES IN THE BOX BELOW EACH SET OF COORDINATES. The first one is done for you

**1) Reflection across the y-axis**

I(-2, -5), U(-3, 0), D(-1, 1), K(-1, -4)

I' (2, -5)	U' (3, 0)	D' (1, 1)	K' (1, -4)
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**2) Reflection across the y-axis**

P(0, 1), N(1, 3), T(3, 1), W(1, 0)

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**3) Reflection across the x-axis**

B(3, -4), X(2, -1), M(5, 1)

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**4) Reflection across the y-axis**

Y(-5, -5), L(-5, -4), V(-3, -1), F(-3, -3)

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**5) Reflection across the x-axis**

X(-4, 2), J(-4, 4), E(-1, 3), Z(1, 0)

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**6) Reflection across the x-axis**

T(-3, -4), U(1, -1), J(0, -5)

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**7) Reflection across the y-axis**

M(-3, -5), Z(-3, -3), I(-2, -5)

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**8) Reflection across the y-axis**

K(-4, 1), F(-5, 5), H(-2, 5), N(-2, 3)

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NAME \_\_\_\_\_ # \_\_\_\_\_ DATE \_\_\_\_\_ HR \_\_\_\_\_