

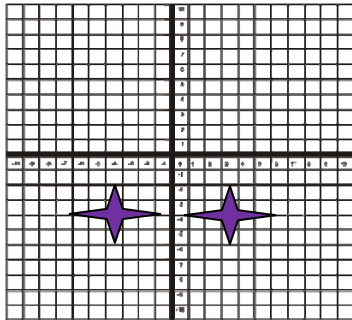
Name: \_\_\_\_\_

Date \_\_\_\_\_

Topic: Reflection in a line - Worksheet 1

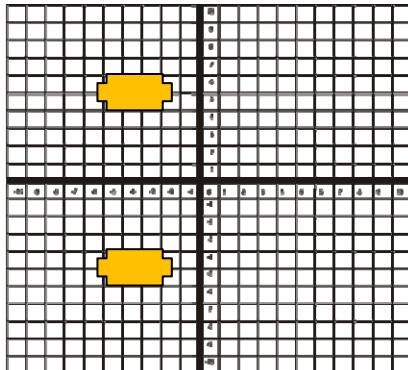
1. The image of the point  $(9, -9)$  under a reflection across the  $y$ -axis is  $(-9, 9)$ .
2. The image of the point  $(3, -1)$  under a reflection across the  $y$ -axis is  $(-3, 1)$ .
3. The image of the point  $(-7, 2)$  under a reflection across the line  $y = x$  is  $(7, -2)$ .
4. The image of the point  $(-4, -3)$  under a reflection across the line  $y = -x$  is  $(4, 3)$ .
5. The image of the point  $(6, -4)$  under a reflection across the  $x$ -axis is  $(6, 4)$ .
6. The image of the point  $(9, -4)$  under a reflection across the  $y$ -axis is  $(-9, -4)$ .
7. The image of the point  $(8, -3)$  under a reflection across the line  $y = x$  is  $(-8, 3)$ .
8. The image of the point  $(-10, -5)$  under a reflection across the line  $y = -x$  is  $(10, 5)$ .

9.



*This graph illustrates a reflection over the  $y$ -axis.*

10.



*This graph illustrates a reflection over the  $y$ -axis.*



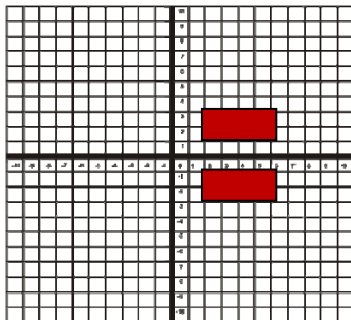
Name: \_\_\_\_\_

Date \_\_\_\_\_

Topic: Reflection in a line - Worksheet 2

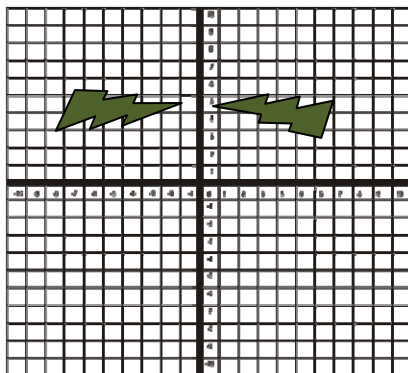
1. The image of the point  $(7, -2)$  under a reflection across the  $y$ -axis is  $(-7, -2)$ .
2. The image of the point  $(3, -4)$  under a reflection across the  $y$ -axis is  $(-3, 4)$ .
3. The image of the point  $(8, -5)$  under a reflection across the line  $y = x$  is  $(-8, 5)$ .
4. The image of the point  $(-6, -3)$  under a reflection across the line  $y = -x$  is  $(6, 3)$ .
5. The image of the point  $(-9, -3)$  under a reflection across the  $x$ -axis is  $(-9, 3)$ .
6. The image of the point  $(5, -7)$  under a reflection across the  $y$ -axis is  $(-5, 7)$ .
7. The image of the point  $(6, -7)$  under a reflection across the line  $y = x$  is  $(-6, 7)$ .
8. The image of the point  $(-2, -8)$  under a reflection across the line  $y = -x$  is  $(2, 8)$ .

9.



*This graph illustrates a reflection over the  $X$ -axis.*

10.



*This graph illustrates a reflection over the  $X$ -axis.*



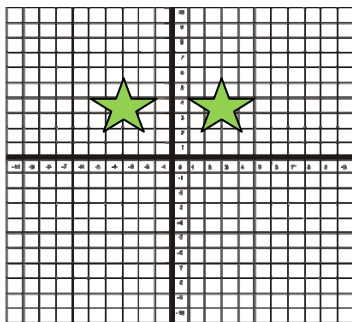
Name: \_\_\_\_\_

Date \_\_\_\_\_

Topic: Reflection in a line - Worksheet 3

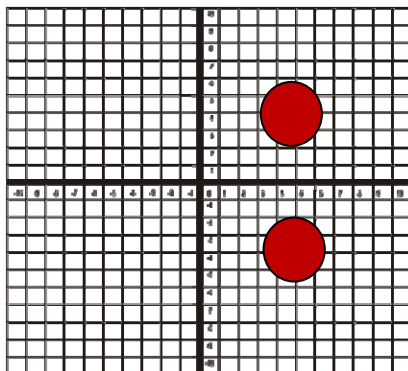
1. The image of the point  $(5, -8)$  under a reflection across the  $y$ -axis is  $(-5, -8)$ .
2. The image of the point  $(3, -7)$  under a reflection across the  $y$ -axis is  $(-3, 7)$ .
3. The image of the point  $(2, -9)$  under a reflection across the line  $y = x$  is  $(-2, -9)$ .
4. The image of the point  $(-8, -4)$  under a reflection across the line  $y = -x$  is  $(8, 4)$ .
5. The image of the point  $(-5, -1)$  under a reflection across the  $x$ -axis is  $(5, 1)$ .
6. The image of the point  $(6, -2)$  under a reflection across the  $y$ -axis is  $(-6, -2)$ .
7. The image of the point  $(4, -3)$  under a reflection across the line  $y = x$  is  $(-4, 3)$ .
8. The image of the point  $(3, -7)$  under a reflection across the line  $y = x$  is  $(3, 7)$ .

9.



This graph illustrates a reflection over the  $y$ -axis.

10.



This graph illustrates a reflection over the  $x$ -axis.



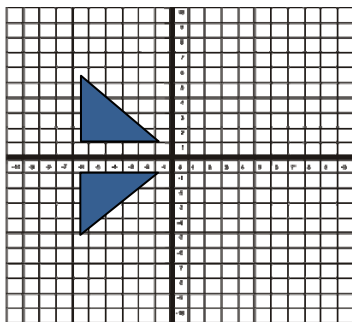
Name: \_\_\_\_\_

Date \_\_\_\_\_

Topic: Reflection in a line - Worksheet 4

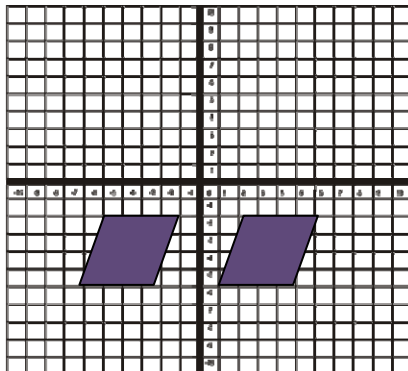
1. The image of the point  $(4, -9)$  under a reflection across the  $y$ -axis is  $(-4, 9)$ .
2. The image of the point  $(5, -7)$  under a reflection across the  $y$ -axis is  $(-5, -7)$ .
3. The image of the point  $(3, -6)$  under a reflection across the line  $y = x$  is  $(-3, 6)$ .
4. The image of the point  $(-1, -8)$  under a reflection across the line  $y = -x$  is  $(1, 8)$ .
5. The image of the point  $(9, 2)$  under a reflection across the  $x$ -axis is  $(9, -2)$ .
6. The image of the point  $(-3, -5)$  under a reflection across the  $y$ -axis is  $(-3, 5)$ .
7. The image of the point  $(-2, -7)$  under a reflection across the line  $y = -x$  is  $(2, 7)$ .
8. The image of the point  $(6, -7)$  under a reflection across the line  $y = x$  is  $(-6, 7)$ .

9.



*This graph illustrates a reflection over the  $y$ -axis.*

10.



*This graph illustrates a reflection over the  $y$ -axis.*



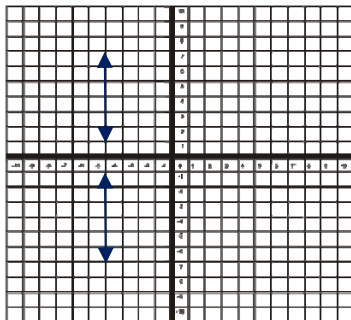
Name: \_\_\_\_\_

Date \_\_\_\_\_

Topic: Reflection in a line - Worksheet 5

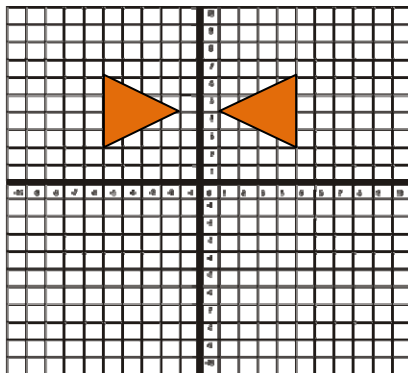
1. The image of the point  $(4, -4)$  under a reflection across the  $y$ -axis is  $(-4, -4)$ .
2. The image of the point  $(2, -7)$  under a reflection across the  $y$ -axis is  $(-2, 7)$ .
3. The image of the point  $(3, -1)$  under a reflection across the line  $y = x$  is  $(-3, 1)$ .
4. The image of the point  $(-5, -2)$  under a reflection across the line  $y = -x$  is  $(5, 2)$ .
5. The image of the point  $(-7, -5)$  under a reflection across the  $x$ -axis is  $(7, -5)$ .
6. The image of the point  $(-9, -3)$  under a reflection across the  $y$ -axis is  $(-9, 3)$ .
7. The image of the point  $(5, -4)$  under a reflection across the line  $y = x$  is  $(-5, 4)$ .
8. The image of the point  $(-2, -1)$  under a reflection across the line  $y = -x$  is  $(2, 1)$ .

9.



This graph illustrates a reflection over the  $X$ -axis.

10.



This graph illustrates a reflection over the  $X$ -axis.

