



Problem 1 – Reflections

To reflect a figure, first select the line of reflection. Then, select the figure to be reflected.

△ABC

Pre-image:

A _____

B _____

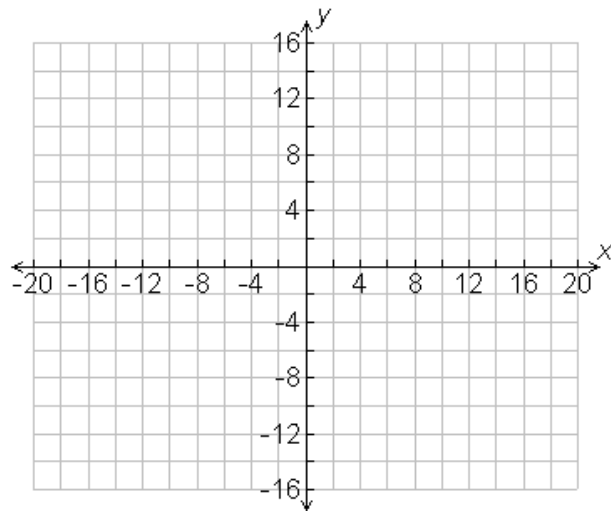
C _____

Reflection over
the x-axis:

A' _____

B' _____

C' _____



△DEF

Pre-image:

D _____

E _____

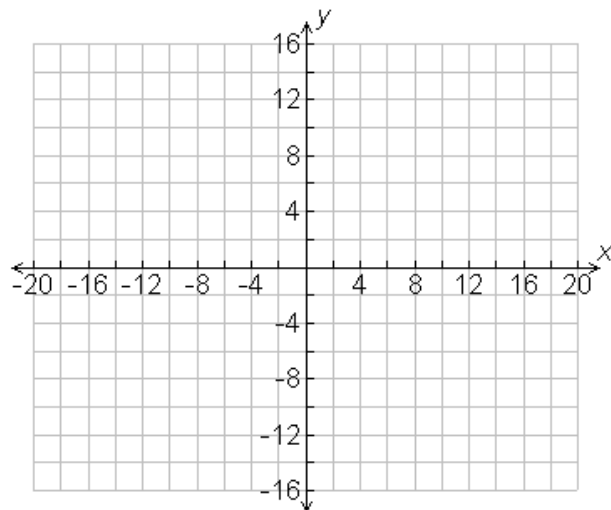
F _____

Reflection over
the x-axis:

D' _____

E' _____

F' _____



Summarize:

Reflecting a point (x, y) over the x-axis: $(x, y) \rightarrow$ _____

Reflecting a point (x, y) over the y-axis: $(x, y) \rightarrow$ _____



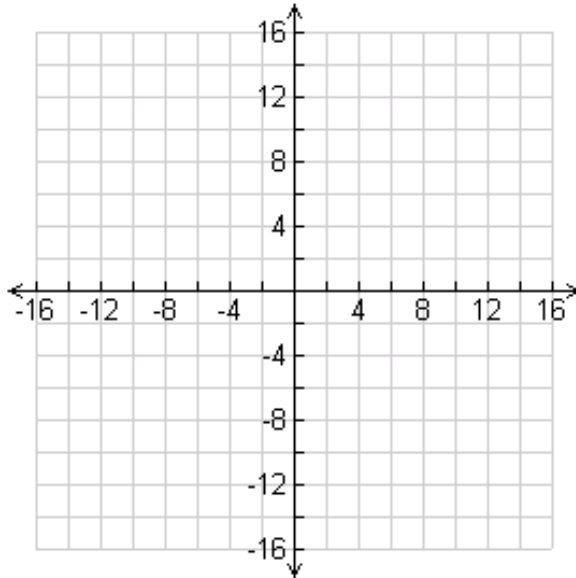
Reflections and Rotations

Problem 2 – Rotations

To rotate a figure, first select the center of rotation. Then select the figure to be rotated. Last, identify the angle of rotation.

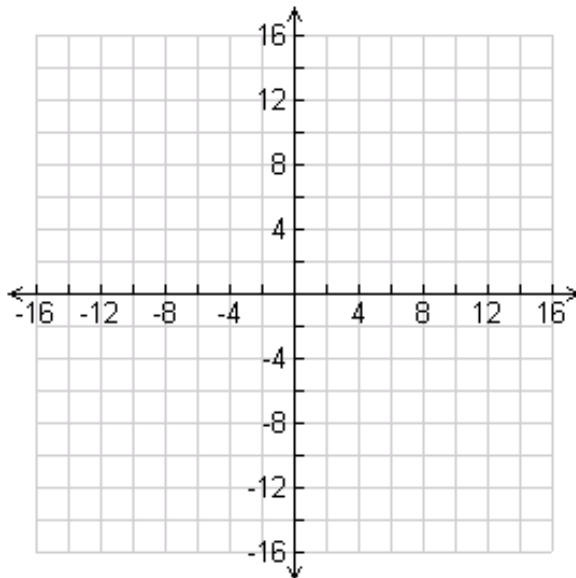
Quadrilateral ABCD

Pre-image:	Rotation 90° counterclockwise about the origin:
A _____	A' _____
B _____	B' _____
C _____	C' _____
D _____	D' _____



Quadrilateral EFGH

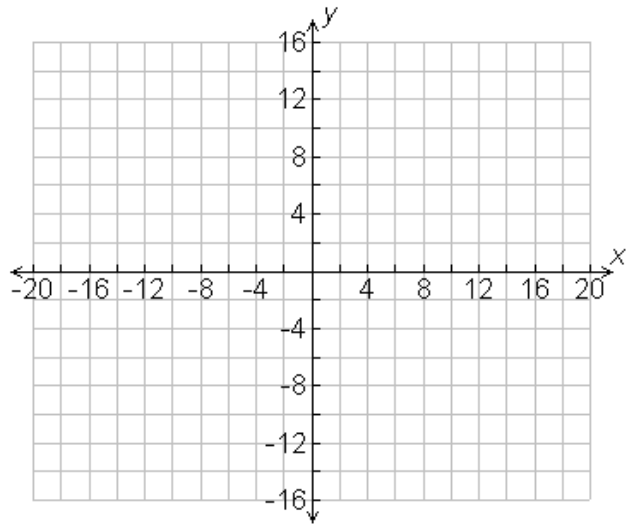
Pre-image:	Rotation 180° counterclockwise about the origin:
E _____	E' _____
F _____	F' _____
G _____	G' _____
H _____	H' _____



Reflections and Rotations

Quadrilateral JKLM

Pre-image:	Rotation 270° counterclockwise about the origin:
J _____	J' _____
K _____	K' _____
L _____	L' _____
M _____	M' _____



Summarize:

Rotating a point (x, y) 90° counterclockwise about the origin: $(x, y) \rightarrow$ _____

Rotating a point (x, y) 180° counterclockwise about the origin: $(x, y) \rightarrow$ _____

Rotating a point (x, y) 270° counterclockwise about the origin: $(x, y) \rightarrow$ _____

Problem 3 – More reflections and rotations

Use the diagrams on pages 3.1 through 3.3 to explore even more reflections and rotations as directed by your teacher.

