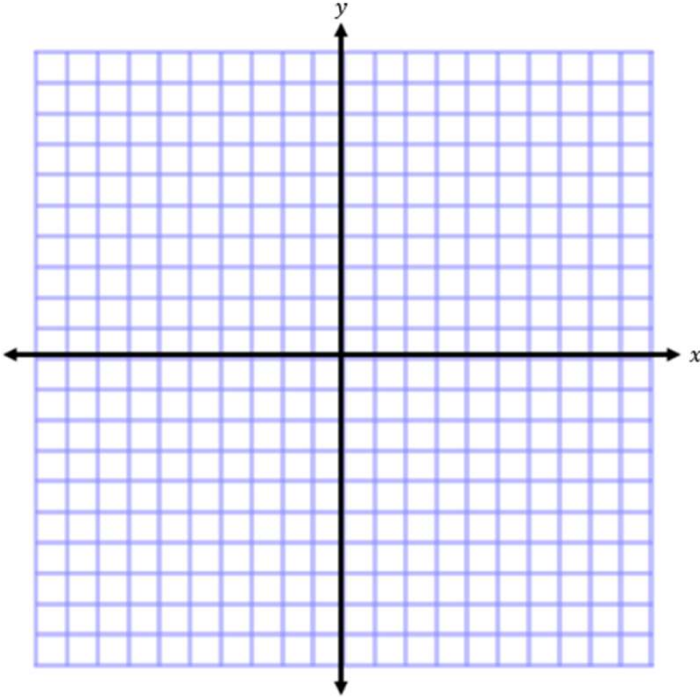
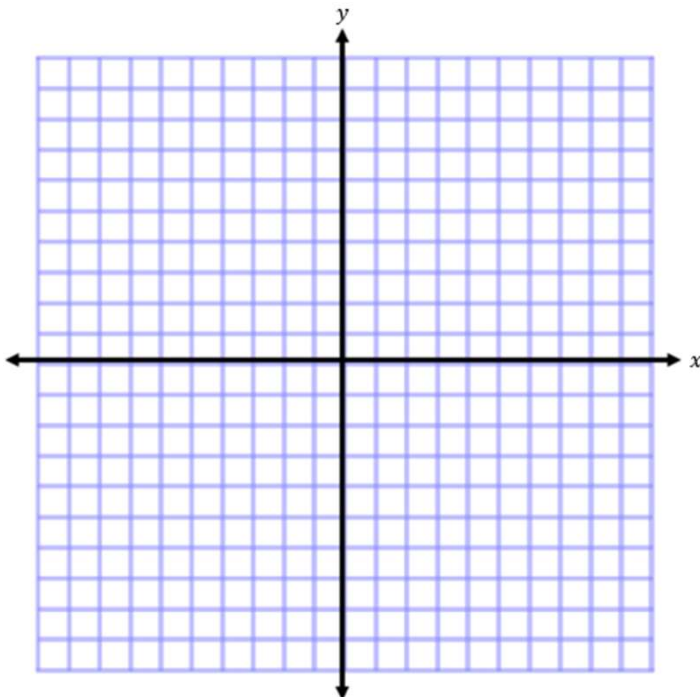


## Geometry Worksheets (Area of Polygons in the Coordinate Plane)

1. Plot and connect the points  $A(3, 2)$ ,  $B(3, 7)$ , and  $C(8, 2)$ . Name the shape, and determine the area of the polygon.

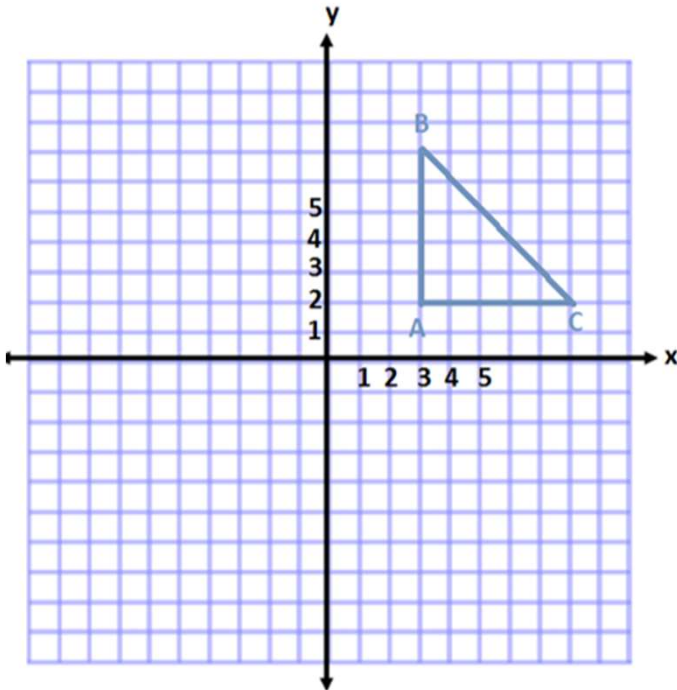


2. Plot and connect the points  $E(-8, 8)$ ,  $F(-2, 5)$ , and  $G(-7, 2)$ . Then give the best name for the polygon, and determine the area.



## Geometry Worksheets (Area of Polygons in the Coordinate Plane)

1. Plot and connect the points  $A(3, 2)$ ,  $B(3, 7)$ , and  $C(8, 2)$ . Name the shape, and determine the area of the polygon.



**Right Triangle**

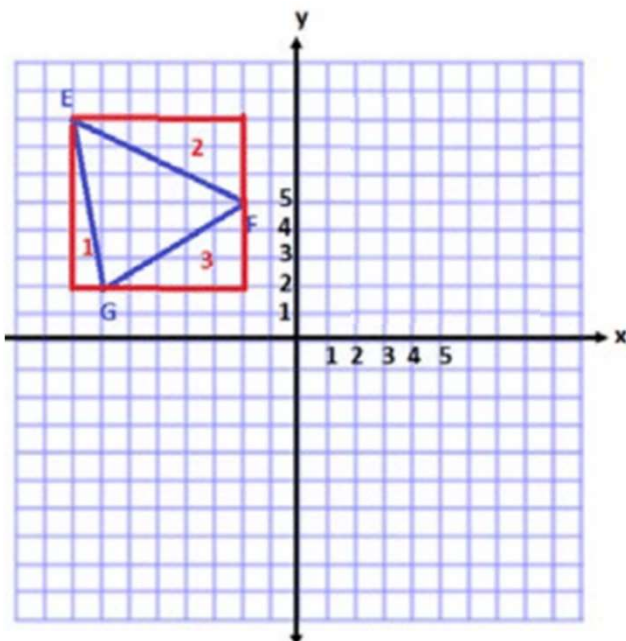
$$A = \frac{1}{2}bh$$

$$A = \frac{1}{2}(5 \text{ units})(5 \text{ units})$$

$$A = \frac{1}{2}(25 \text{ units}^2)$$

$$A = 12.5 \text{ units}^2$$

2. Plot and connect the points  $E(-8, 8)$ ,  $F(-2, 5)$ , and  $G(-7, 2)$ . Then give the best name for the polygon, and determine the area.



*The shape is a triangle.*

*Area of Square*

$$A = s^2$$

$$A = (6 \text{ units})^2$$

$$A = 36 \text{ units}^2$$

*Area of Triangle 1*

$$A = \frac{1}{2}bh$$

$$A = \frac{1}{2}(1 \text{ unit})(6 \text{ units})$$

$$A = \frac{1}{2}(6 \text{ units}^2)$$

$$A = 3 \text{ units}^2$$

*Area of Triangle 2*

$$A = \frac{1}{2}bh$$

$$A = \frac{1}{2}(6 \text{ units})(3 \text{ units})$$

$$A = \frac{1}{2}(18 \text{ units}^2)$$

$$A = 9 \text{ units}^2$$

*Area of Triangle 3*

$$A = \frac{1}{2}bh$$

$$A = \frac{1}{2}(5 \text{ units})(3 \text{ units})$$

$$A = \frac{1}{2}(15 \text{ units}^2)$$

$$A = 7.5 \text{ units}^2$$

*Total Area of Triangle*

$$A = 36 \text{ units}^2 - 3 \text{ units}^2 - 9 \text{ units}^2 - 7.5 \text{ units}^2$$

$$A = 16.5 \text{ units}^2$$

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