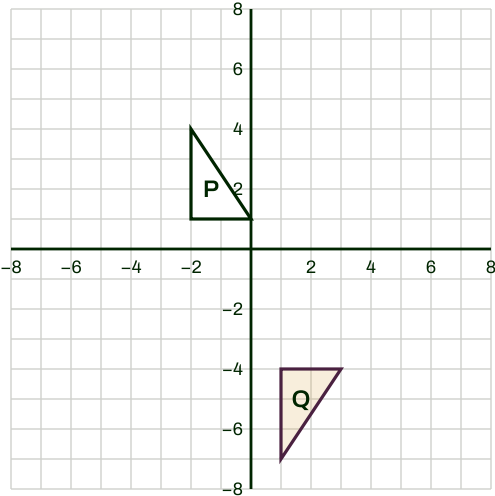


Decide whether two figures are congruent

NAME	DATE	SCORE
		/ 10

1

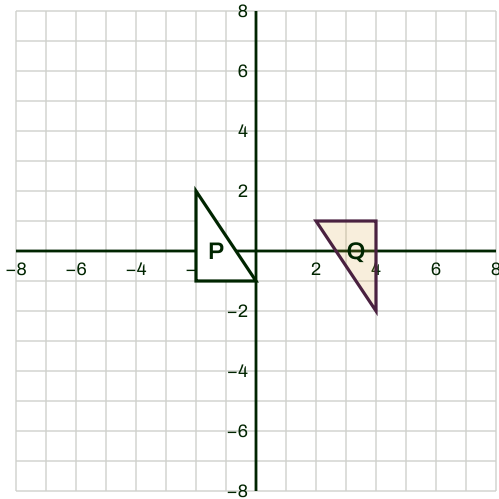
Triangle P and triangle Q are drawn on the grid below. Which motions map P onto Q?



- ☐ None: P and Q have different side lengths
- ☐ Reflect in the y-axis, then translate 3 right and 3 down
- ☐ Rotate 90° clockwise about the origin, then translate 3 right and 3 down
- ☐ Reflect in the x-axis, then translate 3 right and 3 down

2

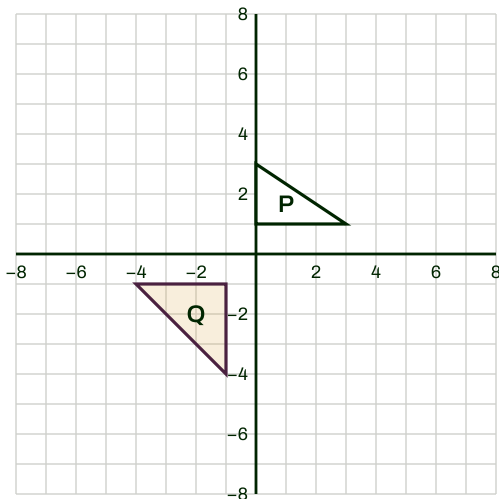
Triangle P and triangle Q are drawn on the grid below. Which motions map P onto Q?



- ☐ Reflect in the x-axis, then translate 2 right ☐ None: P and Q have different side lengths
☐ Rotate 180° about the origin, then translate 2 right
☐ Reflect in the y-axis, then translate 2 right

3

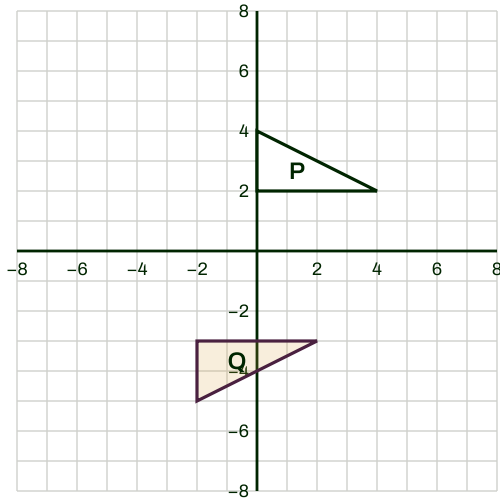
Triangle P and triangle Q are drawn on the grid below. Which motions map P onto Q?



- ☐ None: P and Q have different side lengths ☐ Reflect in the x-axis, then translate 1 left
☐ Reflect in the y-axis, then translate 1 left
☐ Rotate 180° about the origin, then translate 1 left

4

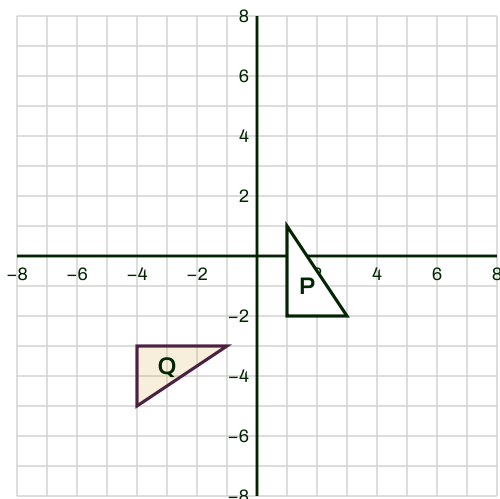
Triangle P and triangle Q are drawn on the grid below. Which motions map P onto Q?



- ☐ Reflect in the x-axis, then translate 2 left and 1 down
- ☐ Rotate 180° about the origin, then translate 2 left and 1 down
- ☐ None: P and Q have different side lengths
- ☐ Rotate 90° counterclockwise about the origin, then translate 2 left and 1 down

5

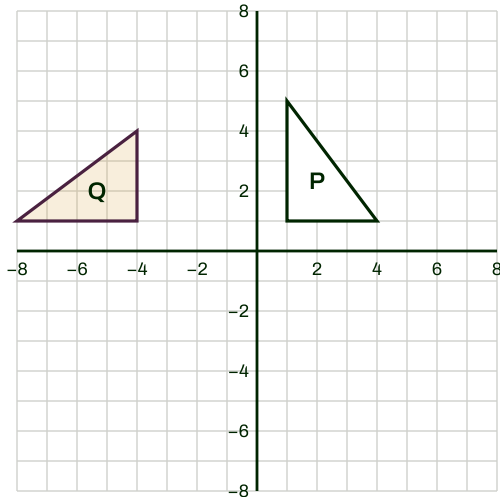
Triangle P and triangle Q are drawn on the grid below. Which motions map P onto Q?



- ☐ None: P and Q have different side lengths
- ☐ Rotate 90° clockwise about the origin, then translate 2 left and 2 down
- ☐ Rotate 90° counterclockwise about the origin, then translate 2 left and 2 down
- ☐ Rotate 180° about the origin, then translate 2 left and 2 down

6

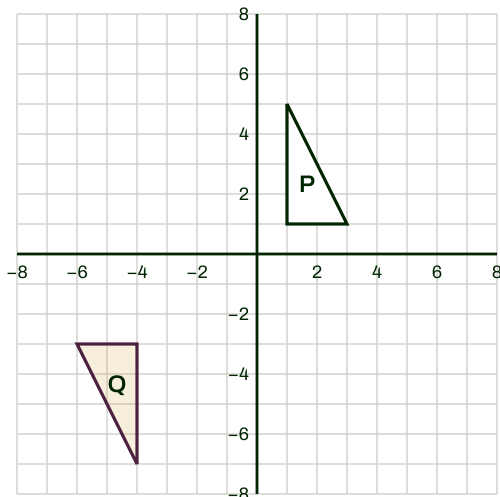
Triangle P and triangle Q are drawn on the grid below. Which motions map P onto Q?



- ☐ Reflect in the x-axis, then translate 3 left
☐ Rotate 90° counterclockwise about the origin, then translate 3 left
☐ None: P and Q have different side lengths ☐ Reflect in the y-axis, then translate 3 left

7

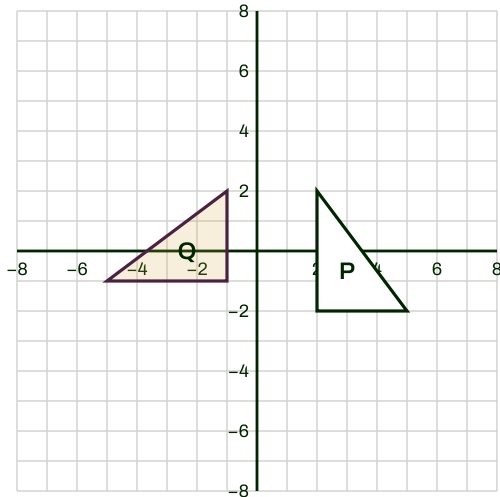
Triangle P and triangle Q are drawn on the grid below. Which motions map P onto Q?



- ☐ None: P and Q have different side lengths
☐ Rotate 90° clockwise about the origin, then translate 3 left and 2 down
☐ Rotate 90° counterclockwise about the origin, then translate 3 left and 2 down
☐ Rotate 180° about the origin, then translate 3 left and 2 down

8

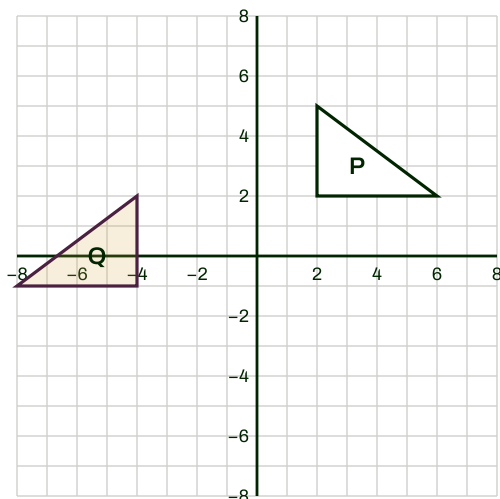
Triangle P and triangle Q are drawn on the grid below. Which motions map P onto Q?



- ☐ Rotate 90° counterclockwise about the origin, then translate 3 left and 3 down
- ☐ Rotate 90° clockwise about the origin, then translate 3 left and 3 down
- ☐ Rotate 180° about the origin, then translate 3 left and 3 down
- ☐ None: P and Q have different side lengths

9

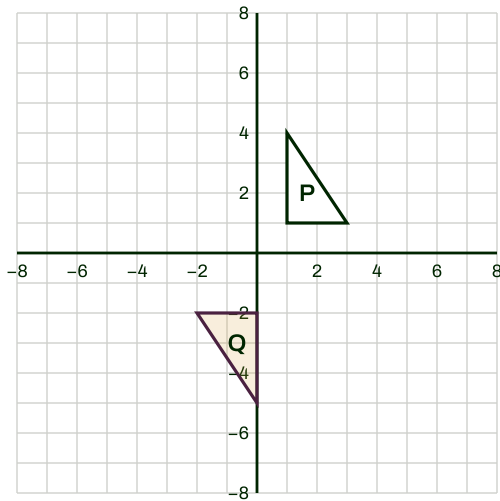
Triangle P and triangle Q are drawn on the grid below. Which motions map P onto Q?



- ☐ Rotate 180° about the origin, then translate 2 left and 3 down
- ☐ Rotate 90° clockwise about the origin, then translate 2 left and 3 down
- ☐ None: P and Q have different side lengths
- ☐ Reflect in the y-axis, then translate 2 left and 3 down

10

Triangle P and triangle Q are drawn on the grid below. Which motions map P onto Q?



- ☐ Reflect in the y-axis, then translate 1 right and 1 down
- ☐ None: P and Q have different side lengths
- ☐ Rotate 90° counterclockwise about the origin, then translate 1 right and 1 down
- ☐ Rotate 180° about the origin, then translate 1 right and 1 down

Decide whether two figures are congruent

1 Reflect in the x-axis, then translate 3 right and 3 down

2 Rotate 180° about the origin, then translate 2 right

3 None: P and Q have different side lengths

4 Reflect in the x-axis, then translate 2 left and 1 down

5 Rotate 90° clockwise about the origin, then translate 2 left and 2 down

6 Rotate 90° counterclockwise about the origin, then translate 3 left

7 Rotate 180° about the origin, then translate 3 left and 2 down

8 Rotate 90° counterclockwise about the origin, then translate 3 left and 3 down

9 Reflect in the y-axis, then translate 2 left and 3 down

10 Rotate 180° about the origin, then translate 1 right and 1 down