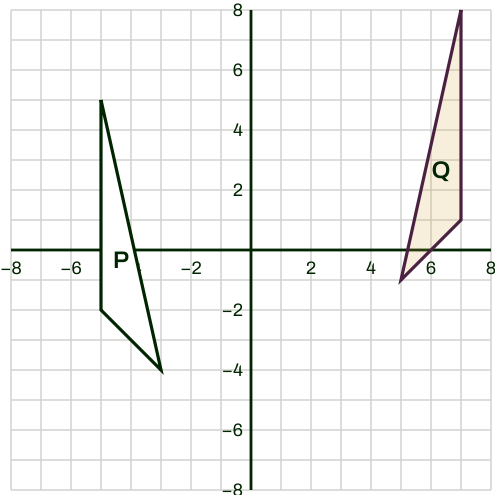


Describe a sequence of transformations

NAME	DATE	SCORE
		/ 10

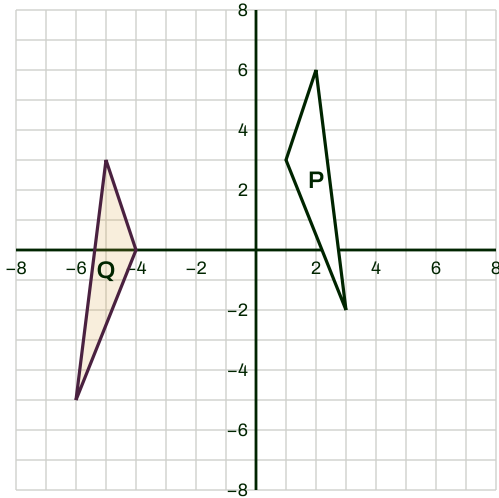
1 Triangle P and triangle Q are drawn on the coordinate plane below. No single translation, reflection or rotation maps P onto Q. Which two moves, in order, map P onto Q?



- ☐ Reflect across the y-axis, then translate 2 right and 3 up
- ☐ Rotate 180° about the origin, then translate 2 right and 3 up
- ☐ Reflect across the y-axis, then translate 2 right and 3 down
- ☐ Reflect across the x-axis, then translate 2 right and 3 up

2

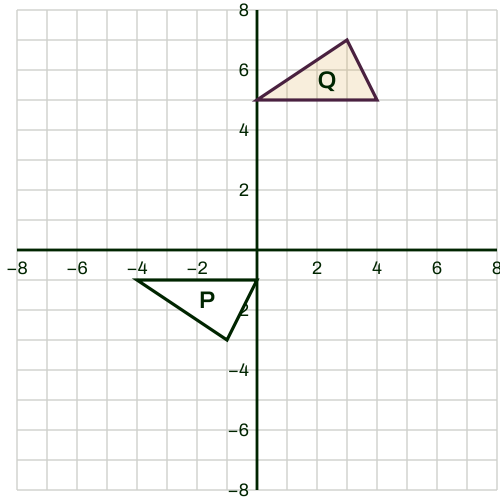
Triangle P and triangle Q are drawn on the coordinate plane below. No single translation, reflection or rotation maps P onto Q. Which two moves, in order, map P onto Q?



- ☐ Rotate 180° about the origin, then translate 3 left and 3 down
- ☐ Reflect across the y-axis, then translate 3 left and 3 down
- ☐ Reflect across the x-axis, then translate 3 left and 3 down
- ☐ Reflect across the y-axis, then translate 3 left and 3 up

3

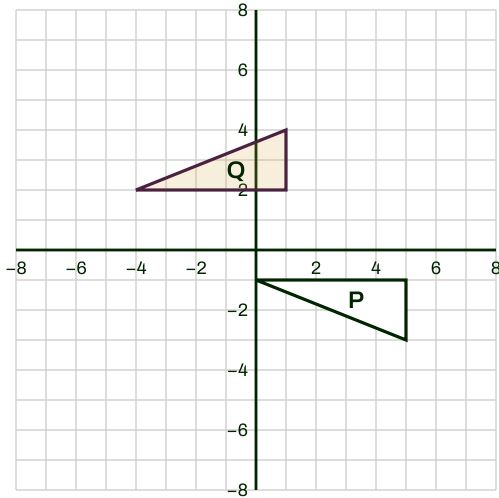
Triangle P and triangle Q are drawn on the coordinate plane below. No single translation, reflection or rotation maps P onto Q. Which two moves, in order, map P onto Q?



- ☐ Reflect across the x-axis, then translate 4 right and 4 up
- ☐ Reflect across the x-axis, then translate 4 left and 4 up
- ☐ Rotate 180° about the origin, then translate 4 right and 4 up
- ☐ Reflect across the y-axis, then translate 4 right and 4 up

4

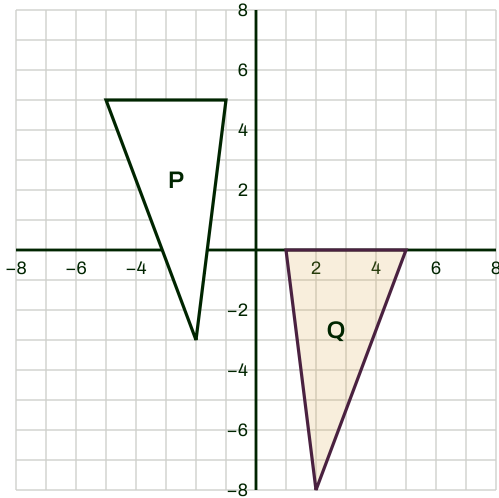
Triangle P and triangle Q are drawn on the coordinate plane below. No single translation, reflection or rotation maps P onto Q. Which two moves, in order, map P onto Q?



- ☐ Reflect across the x-axis, then translate 4 left and 1 up
- ☐ Reflect across the y-axis, then translate 4 left and 1 up
- ☐ Rotate 180° about the origin, then translate 4 left and 1 up
- ☐ Reflect across the x-axis, then translate 4 right and 1 up

5

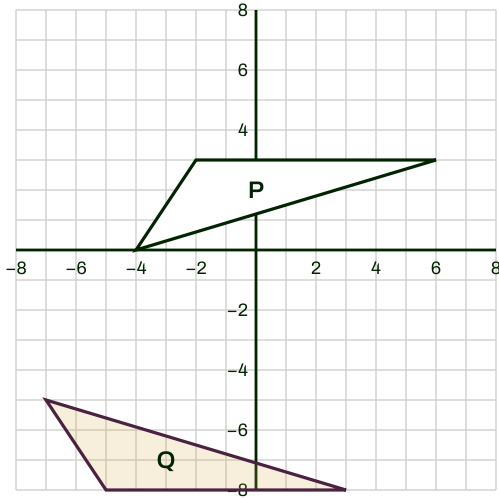
Triangle P and triangle Q are drawn on the coordinate plane below. No single translation, reflection or rotation maps P onto Q. Which two moves, in order, map P onto Q?



- ☐ Rotate 180° about the origin, then translate 5 down
- ☐ Reflect across the x-axis, then translate 5 down
- ☐ Reflect across the y-axis, then translate 5 up
- ☐ Reflect across the y-axis, then translate 5 down

6

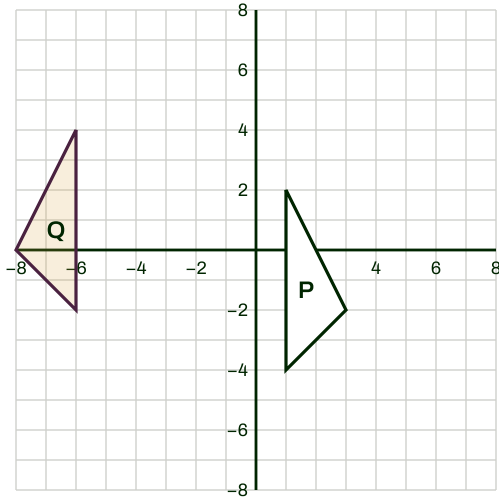
Triangle P and triangle Q are drawn on the coordinate plane below. No single translation, reflection or rotation maps P onto Q. Which two moves, in order, map P onto Q?



- ☐ Reflect across the y-axis, then translate 3 left and 5 down
- ☐ Rotate 180° about the origin, then translate 3 left and 5 down
- ☐ Reflect across the x-axis, then translate 3 left and 5 down
- ☐ Reflect across the x-axis, then translate 3 right and 5 down

7

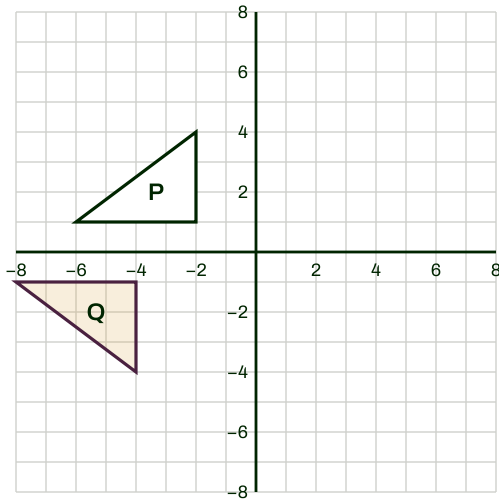
Triangle P and triangle Q are drawn on the coordinate plane below. No single translation, reflection or rotation maps P onto Q. Which two moves, in order, map P onto Q?



- ☐ Rotate 180° about the origin, then translate 5 left and 2 up
- ☐ Reflect across the x-axis, then translate 5 left and 2 up
- ☐ Reflect across the y-axis, then translate 5 left and 2 up
- ☐ Reflect across the y-axis, then translate 5 left and 2 down

8

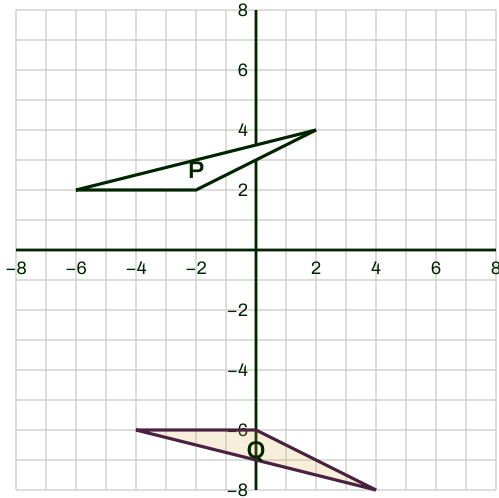
Triangle P and triangle Q are drawn on the coordinate plane below. No single translation, reflection or rotation maps P onto Q. Which two moves, in order, map P onto Q?



- ☐ Reflect across the y-axis, then translate 2 left
- ☐ Reflect across the x-axis, then translate 2 right
- ☐ Reflect across the x-axis, then translate 2 left
- ☐ Rotate 180° about the origin, then translate 2 left

9

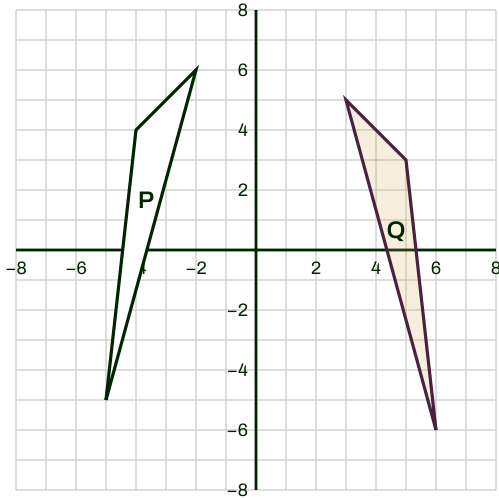
Triangle P and triangle Q are drawn on the coordinate plane below. No single translation, reflection or rotation maps P onto Q. Which two moves, in order, map P onto Q?



- ☐ Reflect across the y-axis, then translate 2 right and 4 down
- ☐ Rotate 180° about the origin, then translate 2 right and 4 down
- ☐ Reflect across the x-axis, then translate 2 right and 4 down
- ☐ Reflect across the x-axis, then translate 2 left and 4 down

10

Triangle P and triangle Q are drawn on the coordinate plane below. No single translation, reflection or rotation maps P onto Q. Which two moves, in order, map P onto Q?



- ☐ Reflect across the y-axis, then translate 1 right and 1 down
- ☐ Reflect across the y-axis, then translate 1 right and 1 up
- ☐ Rotate 180° about the origin, then translate 1 right and 1 down
- ☐ Reflect across the x-axis, then translate 1 right and 1 down

Describe a sequence of transformations

1 Reflect across the y-axis, then translate 2 right and 3 up

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

3 Reflect across the x-axis, then translate 4 right and 4 up

4 Reflect across the x-axis, then translate 4 left and 1 up

5 Reflect across the y-axis, then translate 5 down

6 Reflect across the x-axis, then translate 3 left and 5 down

7 Reflect across the y-axis, then translate 5 left and 2 up

8 Reflect across the x-axis, then translate 2 left

9 Reflect across the x-axis, then translate 2 right and 4 down

10 Reflect across the y-axis, then translate 1 right and 1 down