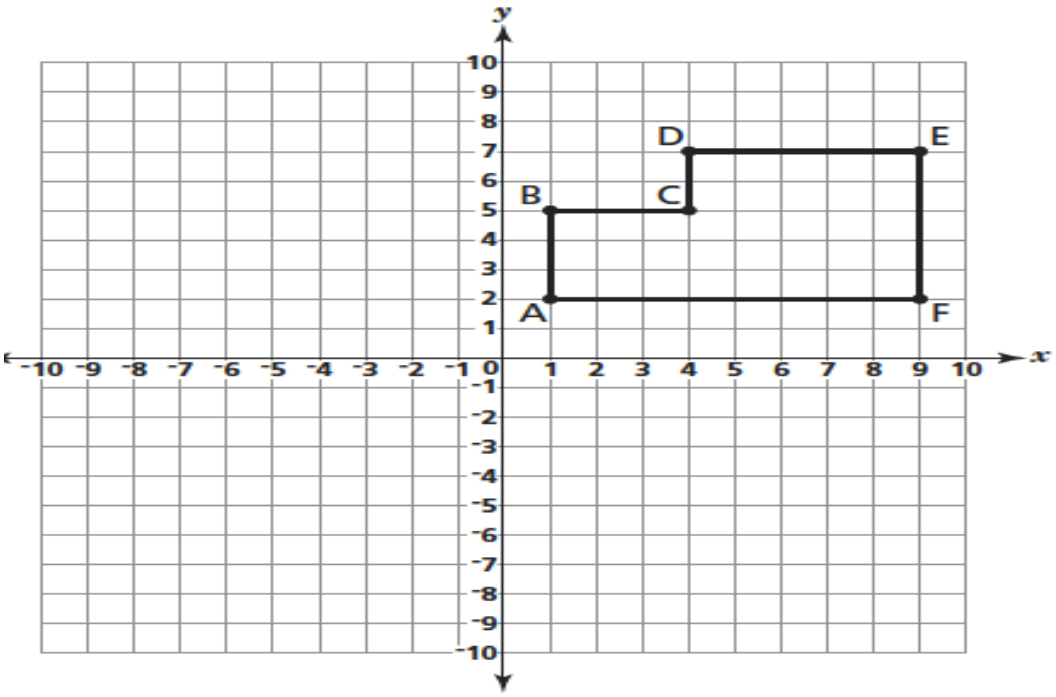
Use the answer sheet provided to you in class.
Show all work.
Math H.W. Area of irregular shapes on coordinate grid.

1)

Figure ABCDEF is plotted on the coordinate plane below.



KEY
= 1 square unit

What is the area, in square units, of the figure?

A 40

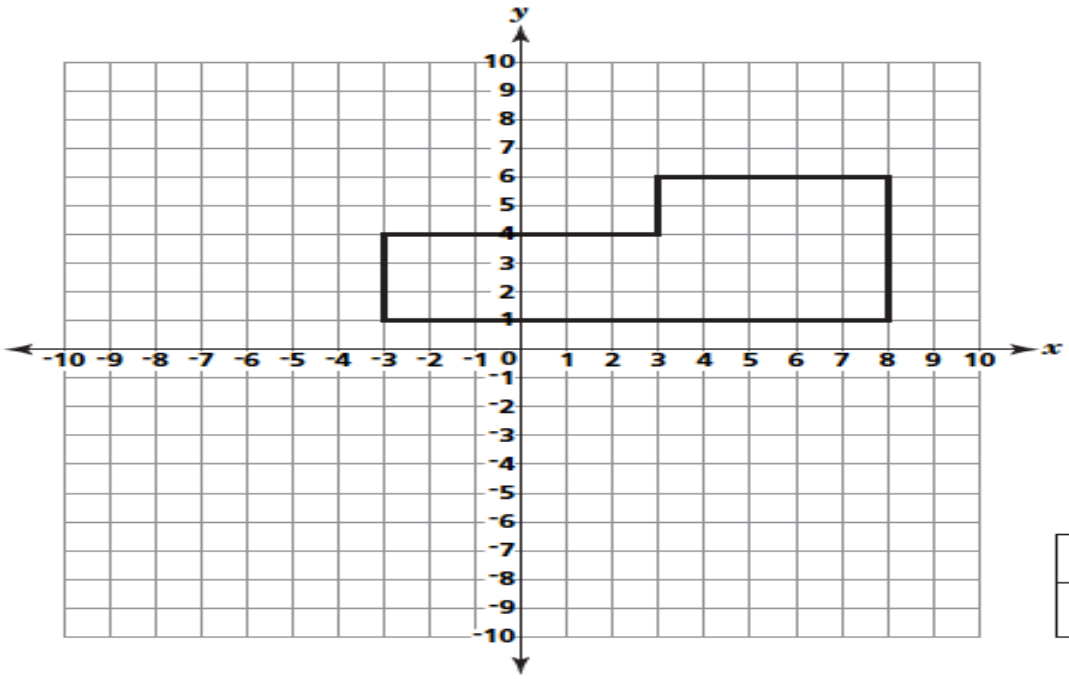
B 34

C 26

D 25

2)

A polygon is plotted on the coordinate plane below.



KEY
☐ = 1 square unit

What is the area, in square units, of the polygon?

A 25

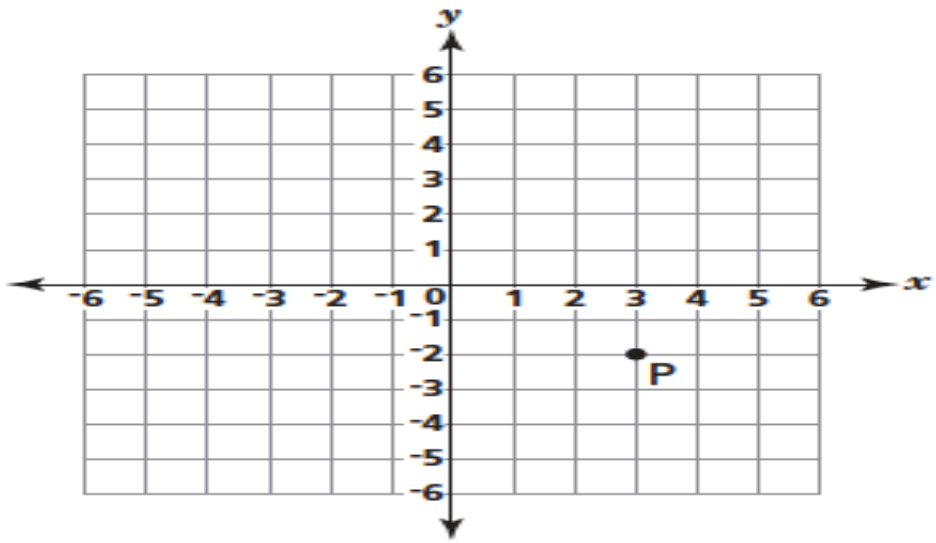
B 32

C 43

D 55

3)

What are the coordinates of point P?



A (2, 3)

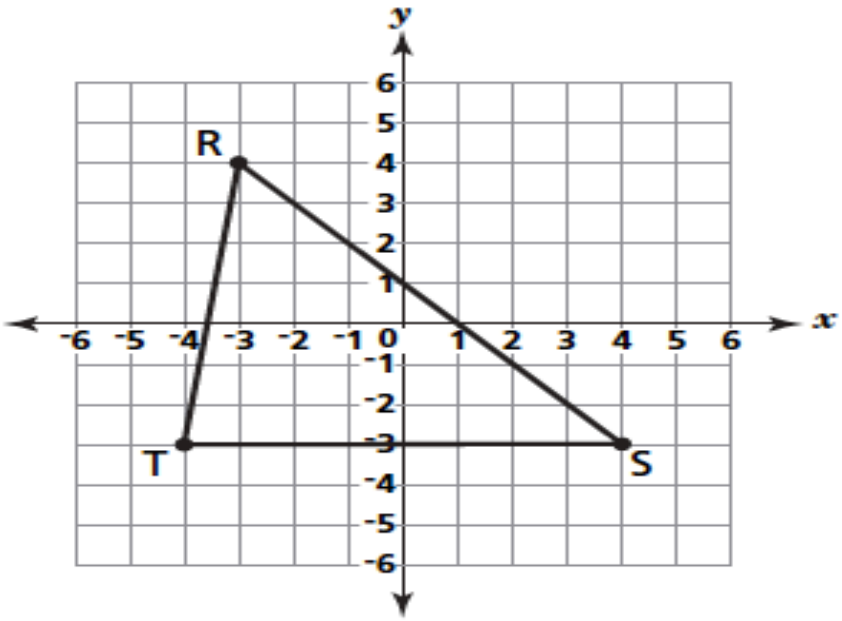
B (3, 2)

C (–2, 3)

D (3, –2)

4)

Triangle RST is shown on the coordinate grid below.



What are the coordinates of point T?

A (–3, –4)

B (–3, 4)

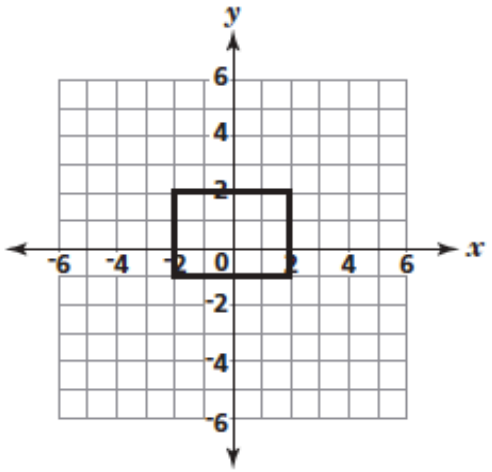
C (–4, –3)

D (–4, 3)

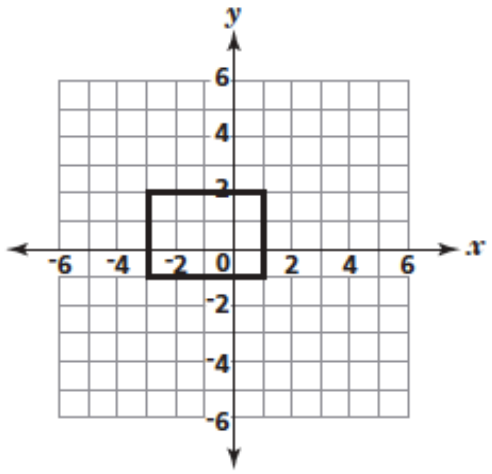
5)

Which figure below represents a rectangle with vertices (3, 2), (−1, 2), (−1, −1), and (3, −1)?

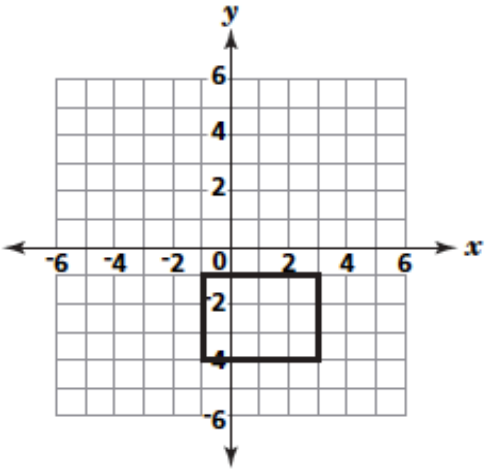
A



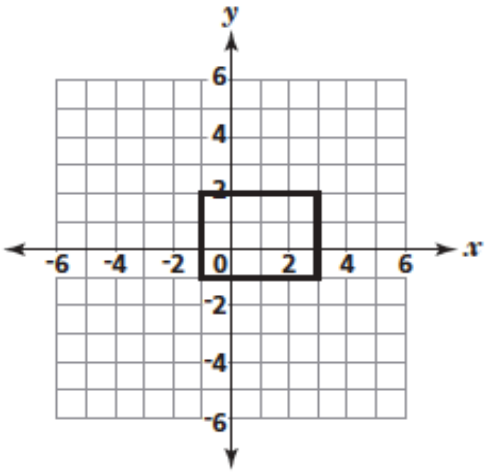
C



B

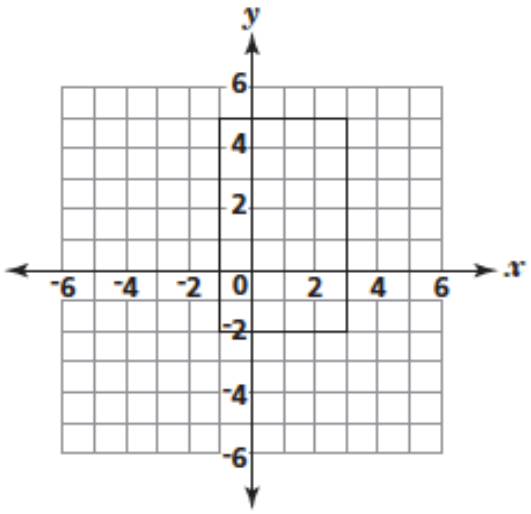


D



6)

What is the area of the rectangle drawn on the coordinate plane shown below?



F 21 square units

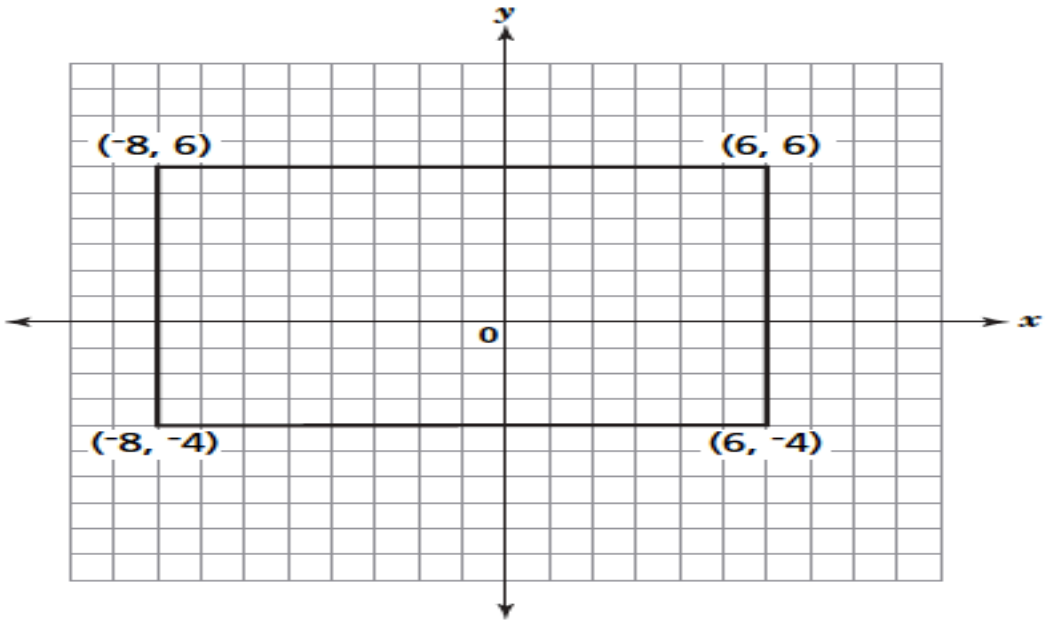
G 24 square units

H 28 square units

J 32 square units

7)

Jamal's deck is in the shape of a polygon and is shown on the grid below.



What is the area of Jamal's deck?

A 28 square units

B 48 square units

C 100 square units

D 140 square units

8)

Erin shops at two stores for a new sweater. The sweater at the first store costs $15 less than three times the cost, c, of the sweater at the second store. The sweater at the first store costs $90. The equation below can be used to determine the cost of the sweater at the second store.

$$3c - 15 = 90$$

Solve the equation to find the cost of the sweater at the second store.

Show your work.

Answer $ _____

9)

Breanna researches the density of corn syrup for a science experiment. She finds that the mass of 50 milliliters of corn syrup is 69 grams. What is the density, in grams per milliliter, of corn syrup?

$$\text{Density} = \frac{\text{Mass}}{\text{Volume}}$$

A 119

B 1.38

C 3,450

D 0.7246