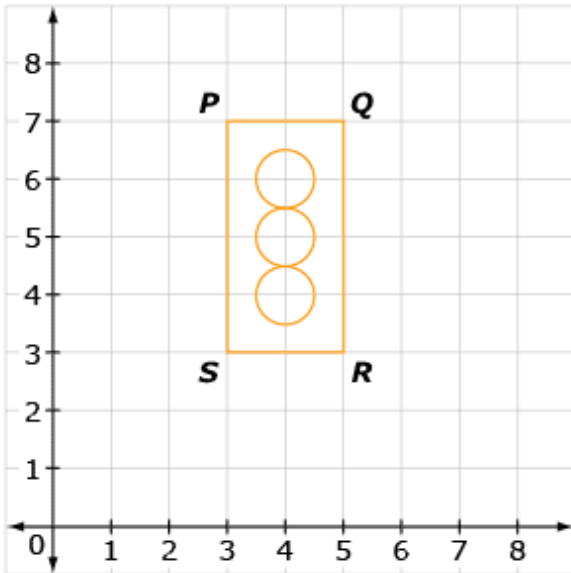




Level 1: Geometry Pretest

Question 1:

Shalla is an electrician. She drew a switch on this coordinate plane.



Which points have an x -coordinate value of 3?

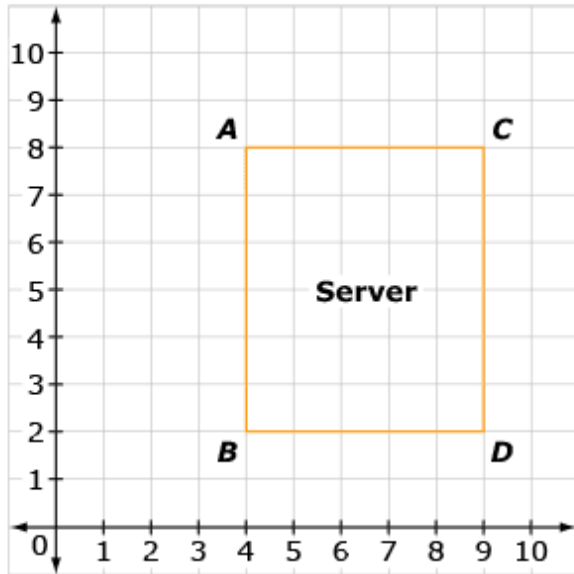
- a. Points P and Q
- b. Points P and R
- ☒ c. Points P and S
- d. Points S and R

Continue ➡



Question 2:

Keith is a network engineer. He drew a server on the coordinate grid.



Which statement is true?

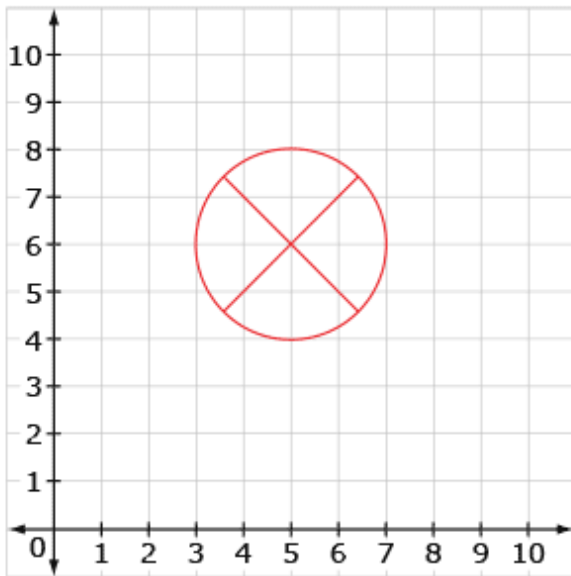
- a. Points *A* and *B* have the same *y*-coordinate value.
- b. Points *C* and *D* have the same *y*-coordinate value.
- ☒ c. Points *A* and *B* have the same *x*-coordinate value.
- d. Points *B* and *D* have the same *x*-coordinate value.

Continue ➡



Question 3:

An electrician is drawing a diagram to wire a room. The symbol represents a light switch.



Which coordinate pair represents the location of the center of the switch?

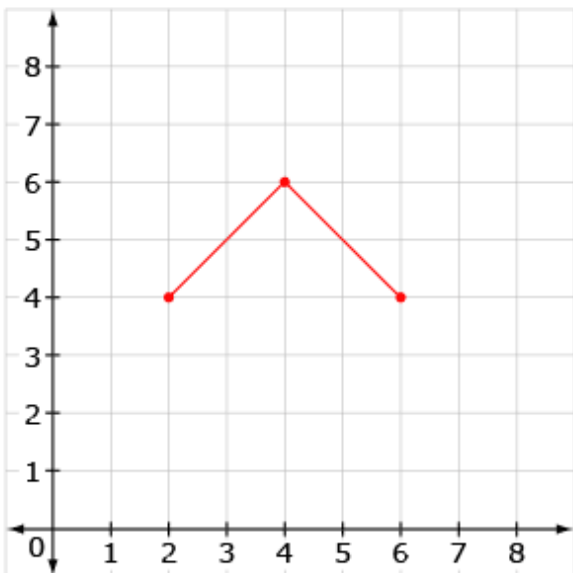
- a. (5, 5)
- b. (5, 6)**
- c. (6, 5)
- d. (6, 6)

Continue ➡



Question 4:

A graphic designer is creating a logo for a company. He starts to draw the logo in the shape of a rhombus on this coordinate grid.



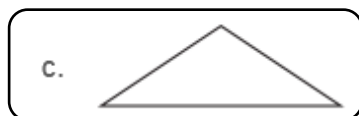
What are the coordinates of the fourth vortex?

(,)

Question 5:

An architect wants a window shaped like an obtuse triangle.

Which triangle should he use to show the shape of the window?



Continue ➡



Question 6:

An artist is asked to draw a quadrilateral that is a parallelogram.

Which shape should he draw?

- a. kite
- b. circle
- ☒ c. square
- d. trapezoid

Question 7:

An artist drew a polygon. She divided the polygon into two isosceles trapezoids.

What is the name of the polygon?

- a. circle
- b. octagon
- ☒ c. hexagon
- d. pentagon

Question 8:

The diagram shows the shape of a picture window.



Which statement is true about the window?

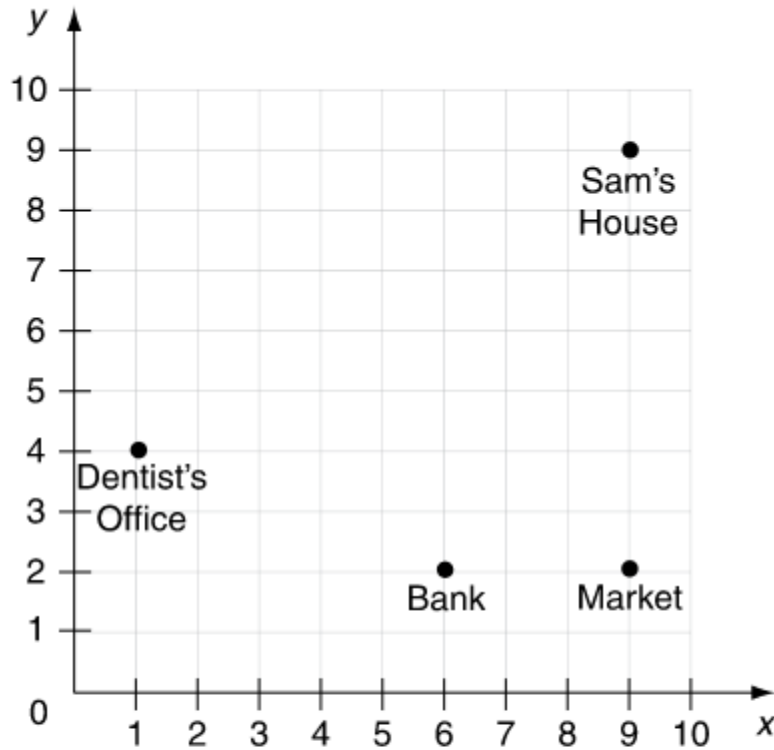
- a. It is a parallelogram with only one pair of opposite sides parallel.
- b. It is a parallelogram with four equal sides and four equal angles.
- ☒ c. It is a quadrilateral with two pairs of congruent sides.
- d. It is a quadrilateral with four congruent sides.

Continue ➡



Question 9:

The locations of some places in a town are shown on the grid below.



Which coordinates represent the location of the market?

- a. (2, 9)
- b. (6, 2)
- c. (9, 2)
- d. (9, 9)

Continue ➡



Question 10:

Look at the figures below.



Figure 1



Figure 2



Figure 3

Which figures are rhombuses?

- a. Figure 2 only
- b. Figure 3 only
- ☒ c. Figures 1 and 2
- d. Figures 1 and 3

Question 11:

Look at the figures below.



Figure 1



Figure 2



Figure 3



Figure 4

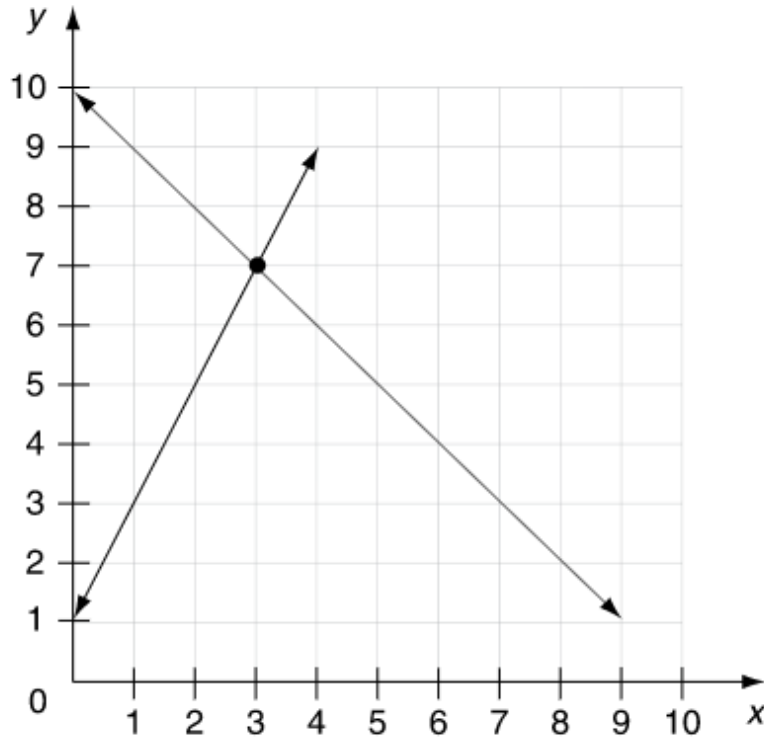
Which figures are parallelograms?

- a. Figure 4 only
- b. Figures 2 and 4 only
- c. Figures 2, 3, and 4 only
- ☒ d. Figures 1, 2, 3, and 4



Question 12:

Look at the two intersecting lines graphed on the coordinate plane below.



What is the x-coordinate of the point where the two lines intersect?

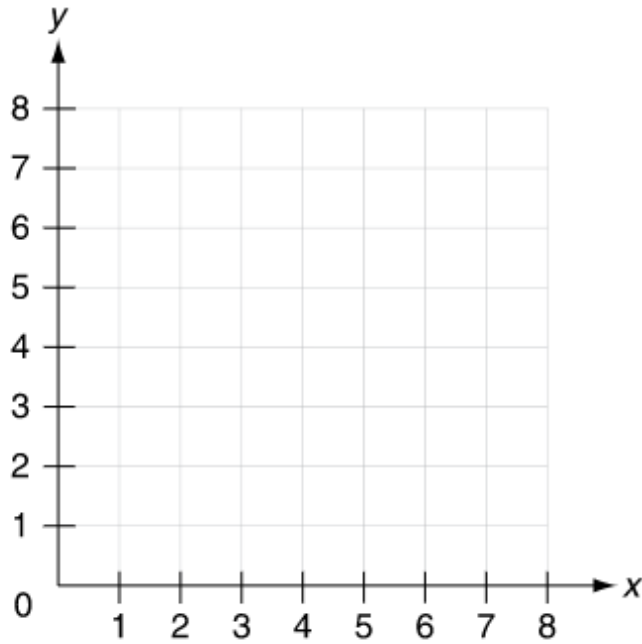
x =

Continue ➡



Question 13:

You may use the coordinate plane below to help you answer this question.



Three vertices of a parallelogram are at $(4, 4)$, $(7, 4)$, and $(6, 2)$.

Write the coordinates of a point that could be the fourth vertex of the parallelogram.

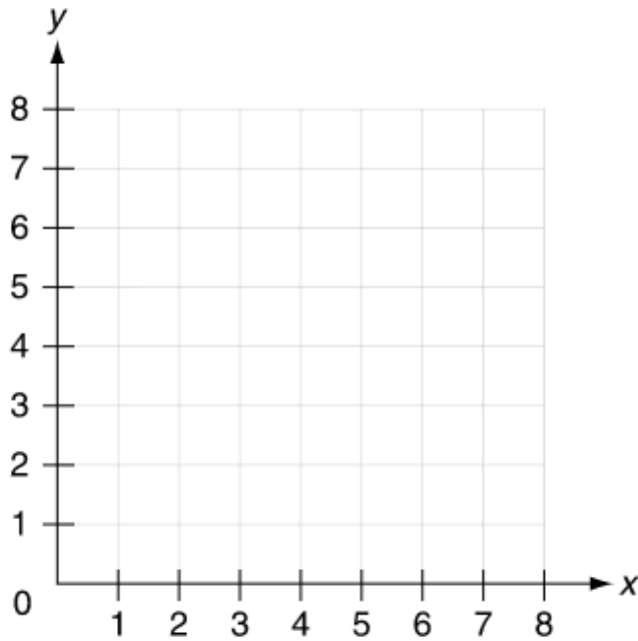
(,)

Continue ➡



Question 14:

You may use the coordinate plane below to help you answer this question.



The three vertices of a rectangle are at $(2, 1)$, $(4, 1)$, and $(4, 5)$.

What are the coordinates of its fourth vertex?

(,)

Question 15:

Point T is located on a coordinate plane 3 units to the right of the origin $(0, 0)$ and 4 units above the origin.

What are the coordinates for point T ?

a. $(0, 3)$

☒ b. $(3, 4)$

c. $(4, 0)$

d. $(4, 3)$