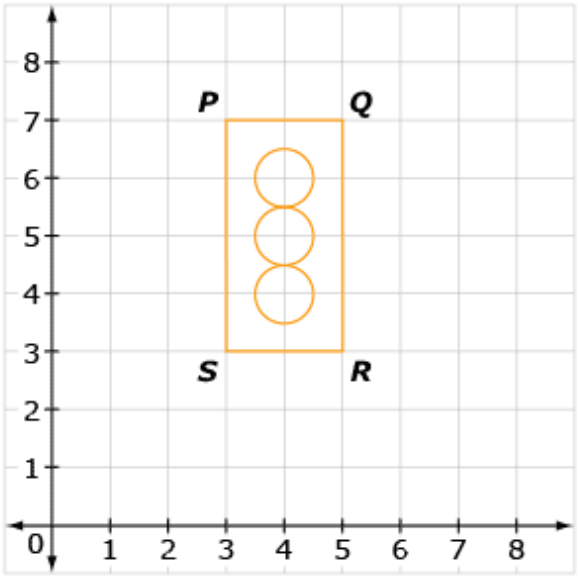
Level 1: Geometry Pretest

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*

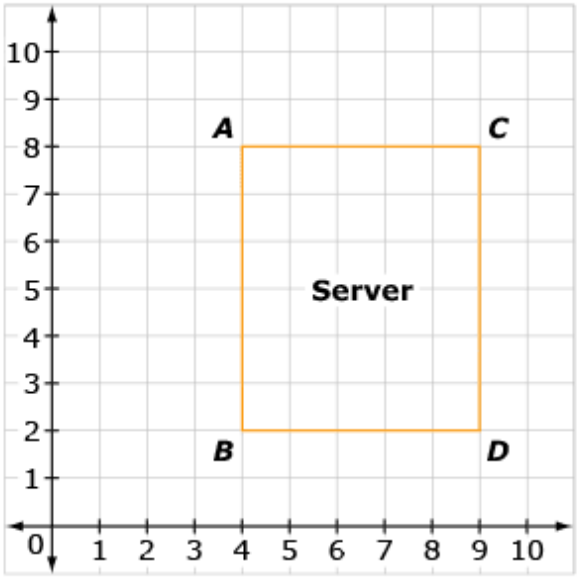
c. Points *P* and *S*

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.

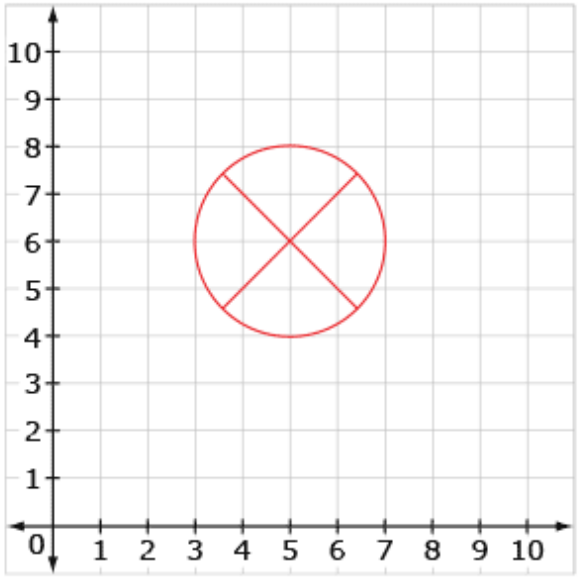
c. Points *A* and *B* have the same *x*-coordinate value.

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)

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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?

(,)

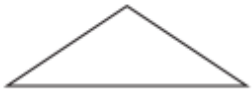
Question 5:

An architect wants a window shaped like an obtuse triangle.

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

a. 

b. 

c. 

d. 

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.

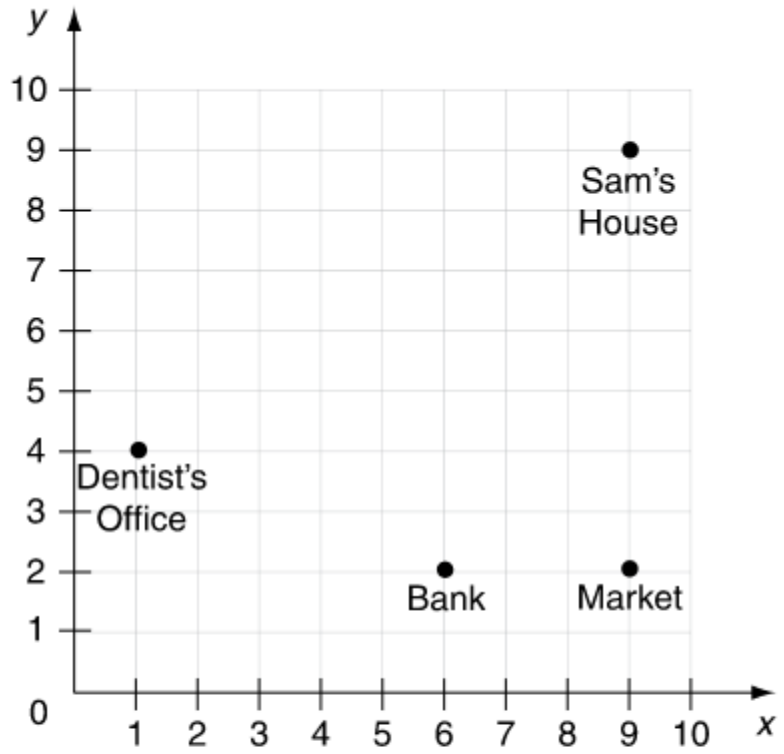
c. It is a quadrilateral with two pairs of congruent sides.

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

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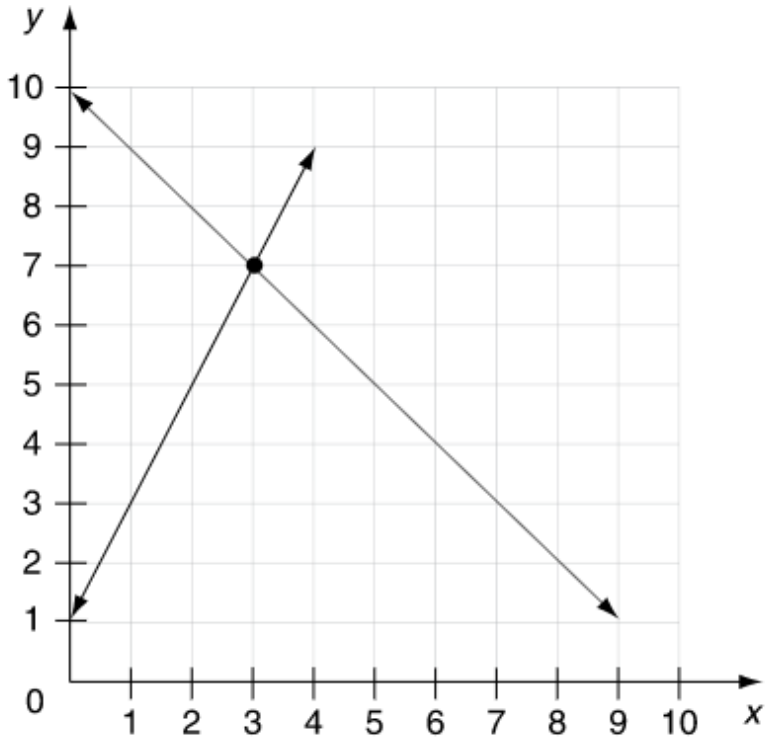
Question 12:

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



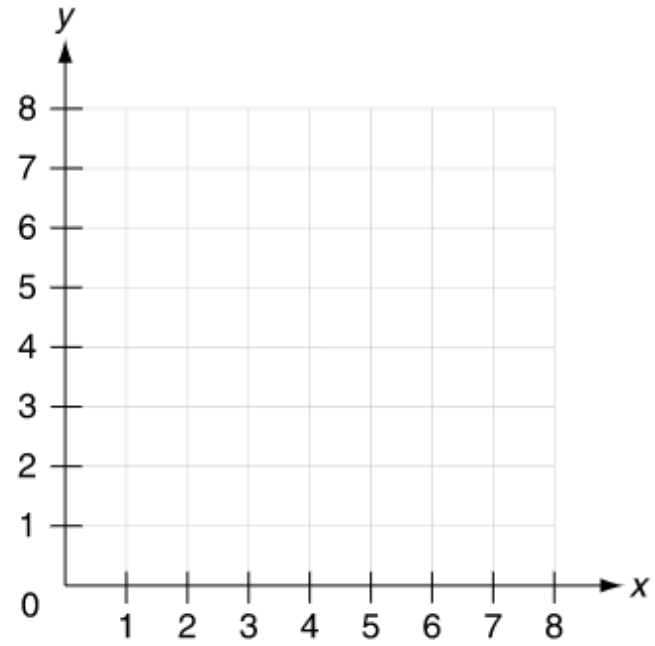
What is the *x*-coordinate of the point where the two lines intersect?

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.

(,)

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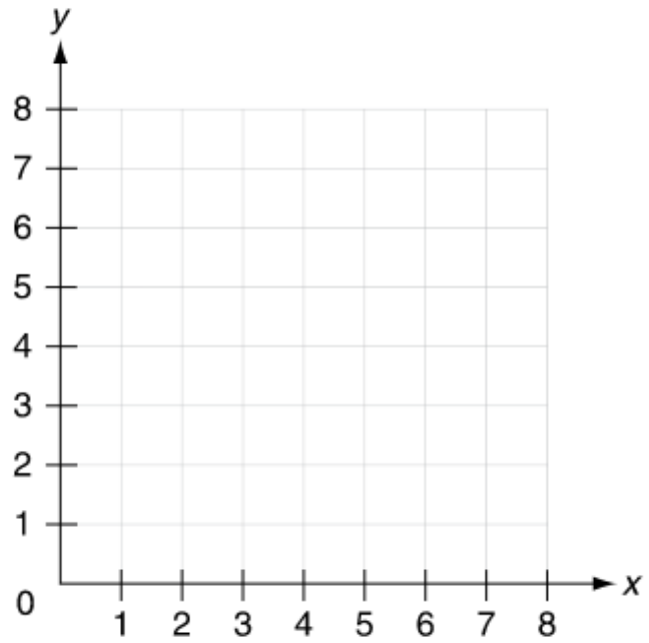
Question 14:

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)

Stop