

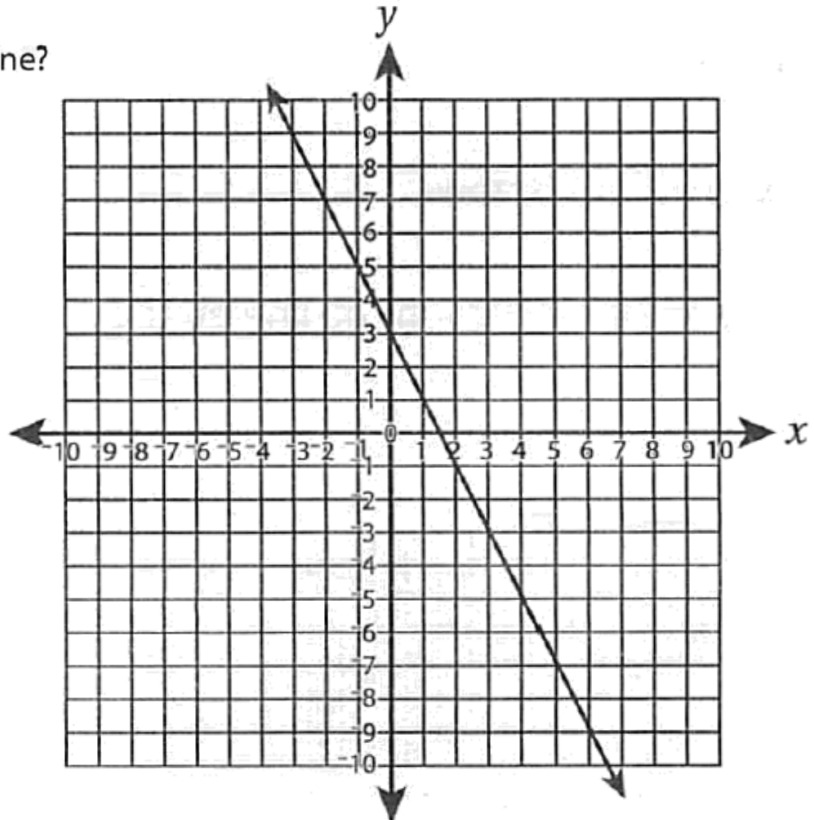
Name .....

# Spiral Review 19

Directions: Show your work for credit. Use your notes and textbook for support

1 What is the slope of this line?

- A -3
- B -2
- C 2
- D 3



2 What is the equation of a line with a slope of 4 and a y-intercept of -1?

- A  $y = -x + 4$
- B  $y = 4x + 1$
- C  $y = 4x - 1$
- D  $-y = 4x$

3 The perimeter of rectangle JKLM is 20 centimeters. Under which transformation could the perimeter of the image, rectangle J'K'L'M', be less than 20 centimeters?

- A dilation
- B reflection
- C rotation
- D translation

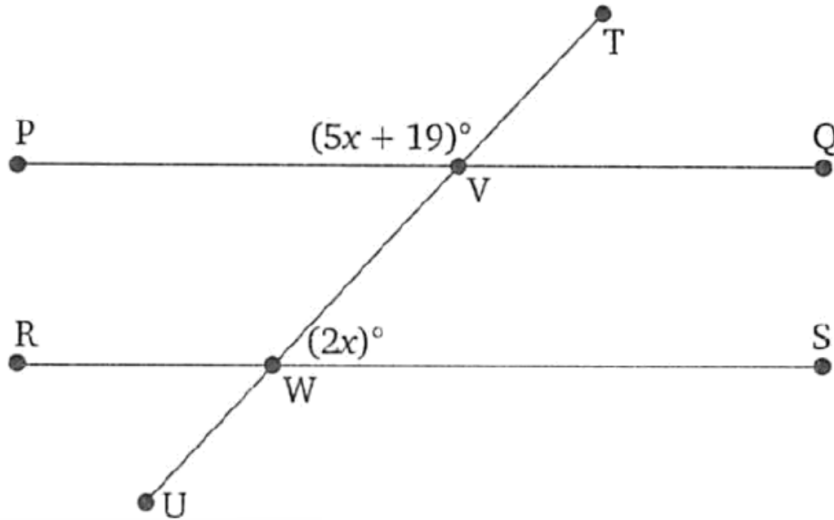
4 Simplify the expression below.

$$\frac{a^3 b^4}{ab}$$

- A  $ab$
- B  $\frac{a^2 b^3}{ab}$
- C  $a^2 b^3$
- D  $a^4 b^5$

5

In the diagram below,  $\overline{PQ}$  is parallel to  $\overline{RS}$ . Transversal  $\overline{TU}$  intersects  $\overline{PQ}$  and  $\overline{RS}$  at points V and W, respectively.



What is the value of  $x$ ?

*Show your work.*

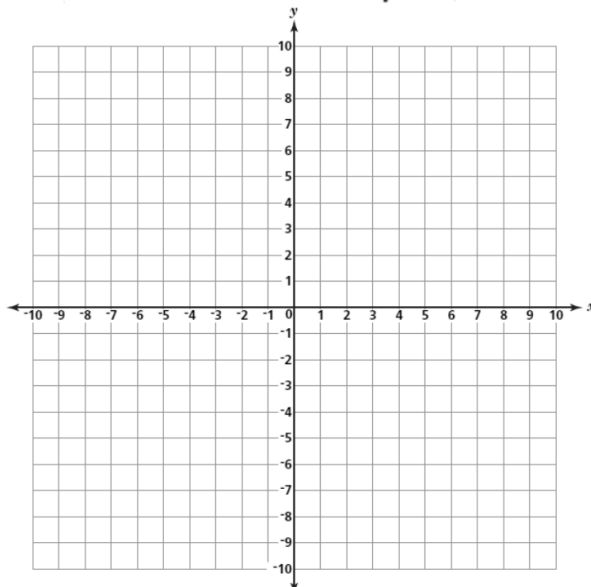
$x =$  \_\_\_\_\_

6

Mr. Taylor wrote this system of equations on the board.

$$\begin{cases} y = 2x - 5 \\ y = -x + 1 \end{cases}$$

Graph both equations on the coordinate plane below.



What point represents the solution to this system of equations? \_\_\_\_\_