

HW6.3b: Cumulative Learning this far in Unit 6

A. Fill in the blank with the most appropriate word(s). An item is used only once, and you will not use them all.

- 1) The _____ are the four corners or sections of the _____.
- 2) The _____ is the ordered pair (0,0).
- 3) The vertical number line on the coordinate plane is called the _____.
- 4) The _____ variable relies on another variable or information.
- 5) The slant of a line can be calculated by finding the _____.
- 6) When graphing a line, you need to organize all your points in a _____.
- 7) When plotting a point, you first look at the _____.

BANK:

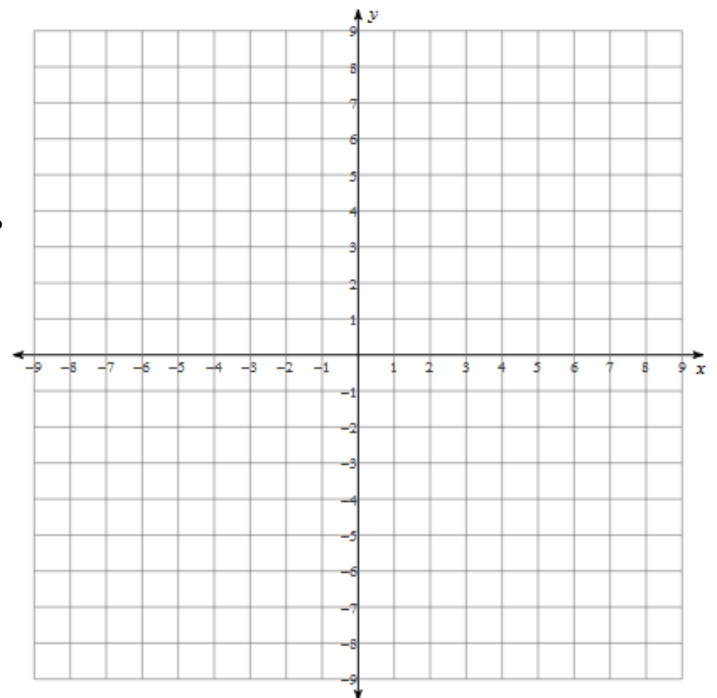
Coordinate Plane	Quadrants	x- axis	y-axis	Ordered Pair
x-coordinate	y-coordinate	Origin	Graph	Independent
Dependent	Linear Relationship	Table of Values	Slope	Rate of Change

B. Plot the points A(-2,-3), B(2,2), C(4,-3), D(8,2) on the graph below.

8) Which quadrant has no point in it?

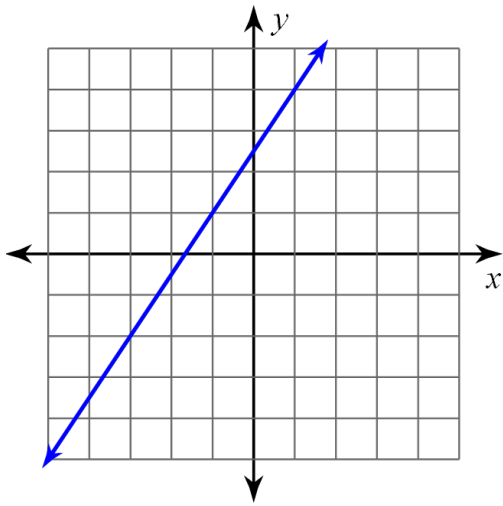
9) Connect the dots. What shape do the points make?

10) Calculate the area of the shape in square units.

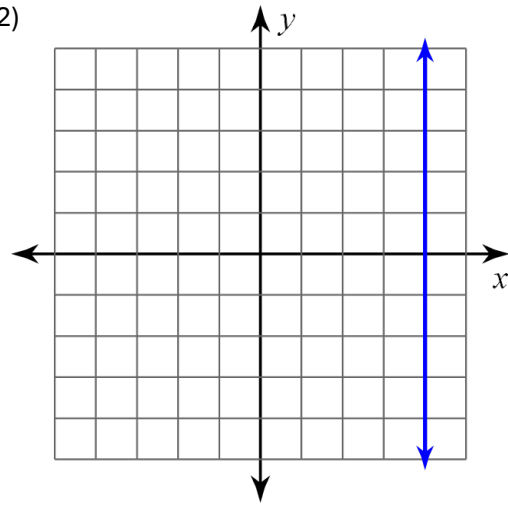


Determine the slope of the following:

11)



12)



Calculate the slope of the line formed by the two points:

13) $(8, 20), (2, 6)$

14) $(-15, 3), (3, -20)$

15) $(7, 12), (14, 12)$

16) $(20, 10), (10, -16)$

Find the value of x or y so that the line through the points has the given slope.

17) $(x, 5)$ and $(-6, 9)$; slope: $-\frac{2}{5}$

18) $(2, y)$ and $(7, -6)$; slope: 3

19) $(4, -7)$ and $(-8, y)$; slope: $-\frac{3}{4}$

20) $(x, 5)$ and $(-6, 9)$; slope: $\frac{4}{3}$