DO NOW

1) Find the slope for the set of points

(-9,2) and (-6, 3)

$x_1\ y_1 \quad x_2\ y_2$

$m = \frac{y_1 - y_2}{x_1 - x_2}$

$m = \frac{2-3}{-9-(-6)} = \frac{-1}{-3} = \frac{1}{3}$

2) State the rate of change and the y-intercept in the equation

slope

y = -2x + 3

$y = mx + b$

$m = \frac{-2}{1}$ $\quad b = 3$ → y-intercept

3) Translate each equation into slope-intercept form

A) y - x = -1

$+x \quad +x$

$y = x - 1$

B) 2x + y = 1

$-2x \quad -2x$

$y = -2x + 1$

C) 3x - y = 5

$-3x \quad -3x$

$\frac{-y}{-1} = \frac{-3x}{-1} + \frac{5}{-1}$

$y = 3x - 5$

D) 8x + 2y = -4

$-8x \quad -8x$

$\frac{2y}{2} = \frac{-8x}{2} - \frac{4}{2}$

$y = -4x - 2$

Apr 2-8:06 AM

Homework Answers

1. Vertical

   Supplementary

   Congruent

3. D

5. B

7. D

9. 180

   Straight

11. 108

13. Alternate exterior

15. Consecutive Interior

17. m<1 = 73 m<3 = 107

    m<4 = 73 m<5 = 107

    m<6 = 73 m<7 = 73

    m<8 =107

19. x = 4

21. x = 16 m< 1 = 29

23. x = 9

25. x = 58

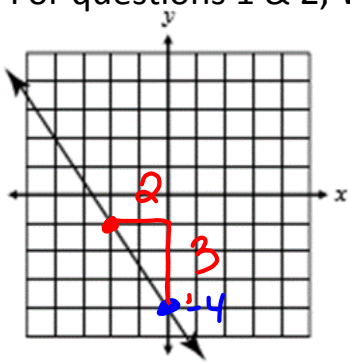
May 29-11:43 AM

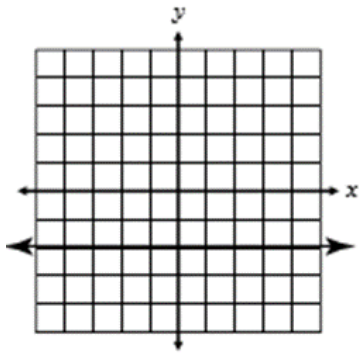
Writing Linear Equations Topics

- Writing Linear Functions when given y - intercept & slope
- Writing Linear Functions when given a graph
- Writing Linear Functions when given slope and a point
- Writing Linear Functions when given two points
- Writing Linear Functions when given a table of values
- Writing/Evaluating/Graphing Linear Functions from word problems

Dec 20-6:52 PM

For questions 1 & 2, Write the equation of the line shown.





$m = -\frac{3}{2}$

$b = -4$

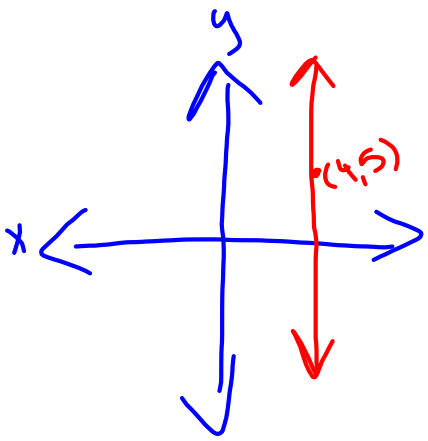
$y = \frac{-3}{2}x - 4$

$y = -2$

May 29-1:31 PM

What is the equation of a line having an undefined slope and passing through the point (4, 5)?

$\boxed{x = 4}$



May 29-1:45 PM

Write the equation of the line that has a slope of $\frac{-1}{3}$ and passes through the point (-3, -5)?

$y = mx + b$

$(-5) = \left(\frac{-1}{3}\right)(-3) + b$

$-5 = 1 + b$

$-1 \quad -1$

$-6 = b$

$\boxed{y = \frac{-1}{3}x - 6}$

May 29-1:45 PM

Attachments

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