Name_____ PS Video #4 A2 Summer 24

1. TRUE or FALSE. Please write out the word.

_____ a. A horizontal line goes up and down while a vertical line goes side-to-side.

_____ b. There are four types of slope for linear funcations.

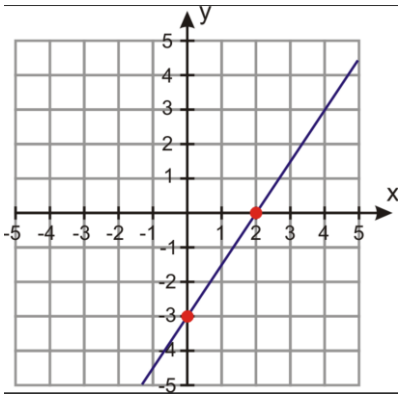
_____ c. $y - 3 = 2(x + 9)$ is the same line as $y + 1 = 2(x - 5)$.

_____ d. $-3x + 5y = 21$ is a line in Standard Form.

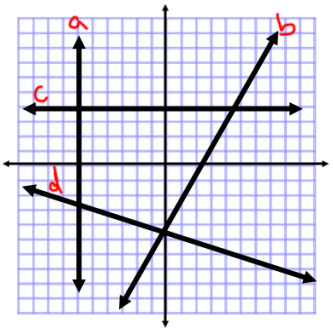
_____ e. $f(x) = \frac{3}{5}x - 4$ is parallel to $6x - 10y = 15$.

_____ f. Slope, average rate of change, $\frac{rise}{run}$, and $\frac{y_2 - y_1}{x_2 - x_1}$ all mean the same thing.

_____ g. The graph below is $f(x) = -3 + \frac{3}{2}x$.



2. Match the line with its description



slope = 0 _____ slope = *positive* _____

slope = *undefined* _____ slope = *negative* _____

3. Write an equation in point-slope form passing thru $(5, -7)\ and\ (2, 8)$

4. Write the line that contains $(-4, 9)\ and\ (2, -1)$ in all three forms:

Standard Form	
Slope Intercept Form	
Point Slope Form	

5. Write an equation *slope-intercept form* given the line is perpendicular to $3x - 4y = 8$ and passes thru $(-2, 7)$

6.

a. Write a linear equation parallel to $2x + 3y = 6,\ and\ passes\ thru\ (-6, 5)$	b. Write a linear equation perpendicular to $y = -\frac{1}{2}x + 3, and\ passes\ thru\ (8, -3)$