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POINT SLOPE FORMULA WORKSHEETS

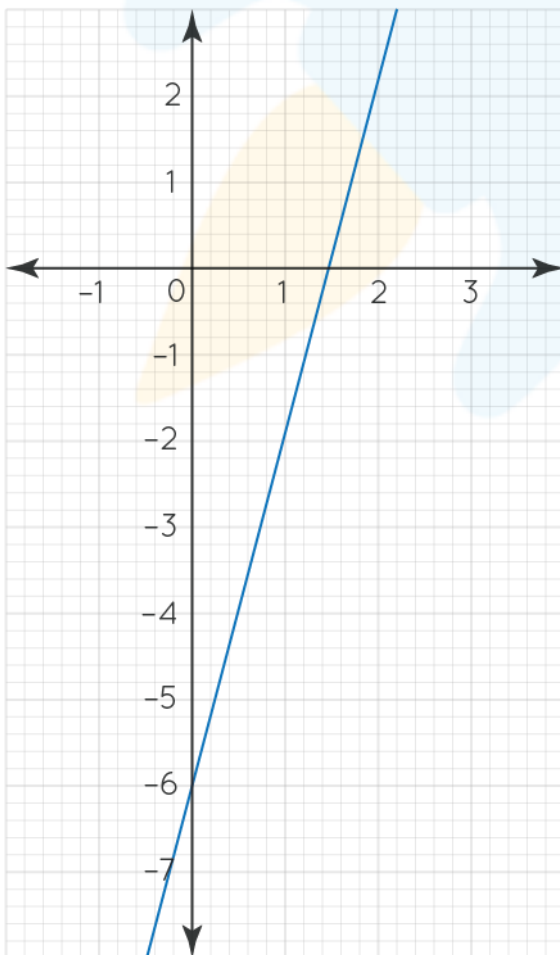
1. Match the following lines with their slopes.

a. $y = 3x + 2$	1. -3
b. $y - 7 = -3(x + 1)$	2. 0
c. $y = 3$	3. 3
d. $x = 7$	4. Undefined

For the questions from 2-4, write the slope of the line and a point on the line.

2. $y - 4 = -2x$

3. $y = \frac{1}{5}(x + 7)$

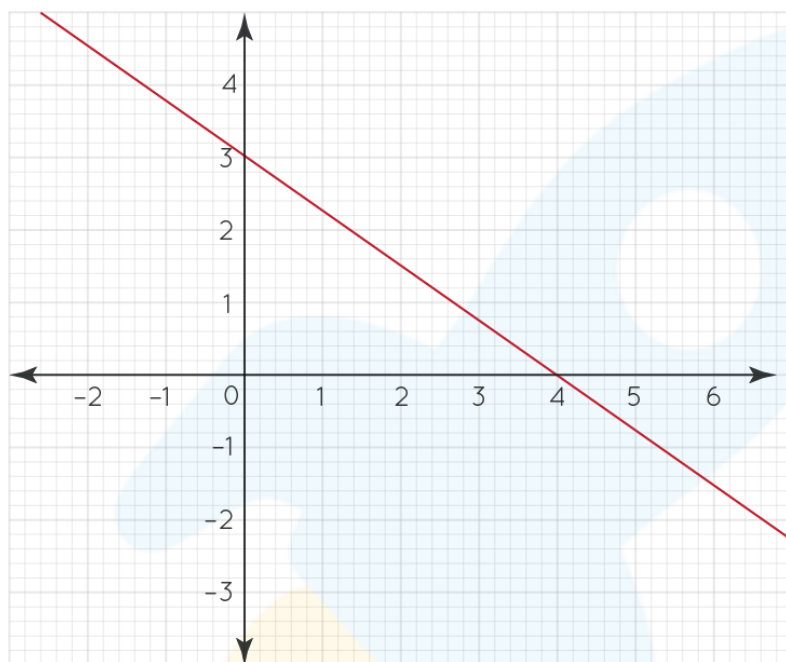


4.

For the questions from 5-7, write the equation of the line in the point-slope form with the given slope and a point on it. Also, express the answer in the mentioned form.

5. Slope = -3 ; point = $(2, 5)$; Point-slope form

6. Slope = $\frac{3}{5}$; point = $\left(5, -\frac{1}{2}\right)$; Slope-intercept form



7. ; Standard form

8. Draw the graph of the following line.

$$y = \frac{1}{3}x + 4$$

9. Mia has a photo album with some photos in it. She starts adding 10 photos per week. After 10 weeks, she has 120 photos in her album. Write the linear equation in the point-slope form representing the relation between number of photos (p) and the number of weeks (w).



10. The point-slope form of a line is $y - 3 = 0(x - 1)$. What can you tell about this line?

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- Kirk Riley

"I appreciate the effort that miss Nitya puts in to help my daughter understand the best methods and to explain why she got a problem incorrect. She is extremely patient and generous with Miranda."

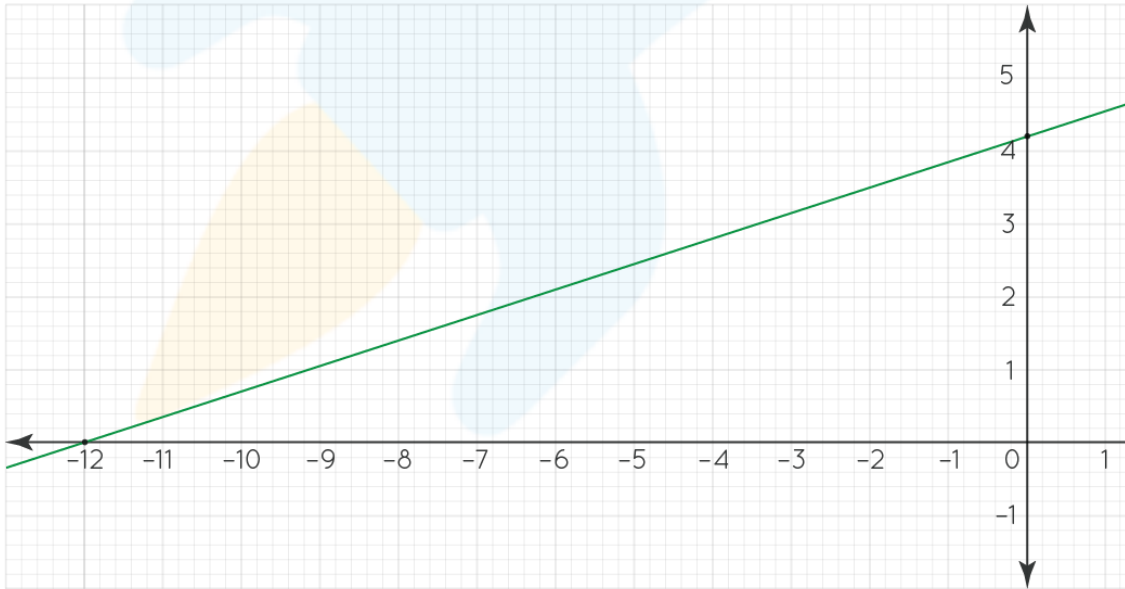
- Barbara Cabrera

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ANSWERS

1)	$a-3; b-1; c-2; d-4$
2)	Slope = -2 ; A point = $(0, 4)$
3)	Slope = $\frac{1}{5}$; A point = $(-7, 0)$
4)	Slope = 4 ; A point = $(1, -2)$ Point may vary
5)	$y - 5 = -3(x - 2)$
6)	$y = \frac{3}{5}x - \frac{7}{2}$
7)	$3x + 4y = 12$
8)	
9)	$p - 120 = 10(x - 10)$
10)	It is a horizontal line as its slope is 0.

FUN FACT

1. If the line is horizontal, its slope is 0.
2. If the line is vertical, its slope is undefined.
3. It is not possible to write the equation of a vertical line in the point-slope form.

