Point-Slope Graphs

Date:

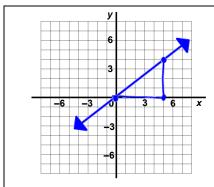
- Complete the rows for *amount of slope* and *direction of slope* in words. a)
- Give the *rise* and the *run* in the spaces provided. b)

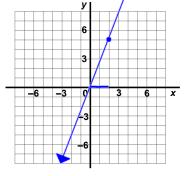
Graph #:	1	2	3	4	5	6
Slope	± 0.7	$\frac{5}{2}$	$-\frac{5}{3}$	$-\frac{1}{3}$	4	-3
Direction Of Slope	ЦР	ПÞ	Down	DOWN	UP	D000/0
Amount Of Slope	STEEP	Steep	STEEP	STRONG	STEEP	STEEP
Run (always positive)	5	2	3	3	1	1
Rise (positive or negative)	4	5	-5	-1	4	77

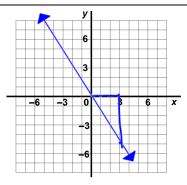
② On the 6 graphs below, plot lines which pass through the origin that have the given slopes.

Steps:

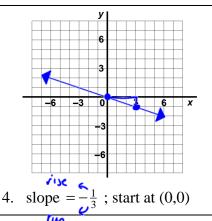
- i) Place your pencil at the requested starting point.
- ii) Use a ruler draw the *run first*. Since this is always positive, it will always be drawn to the right from the starting point.
- iii) Now *draw the rise* from the end of the run. (*Up* if positive, *down* if negative.)
- iv) Draw a line through the ends of the rise and run and extend the line to the edges of the grid.

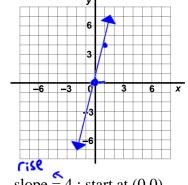


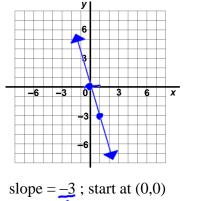




- 1. slope = $\frac{4}{5}$; start at (0,0)
- 2. slope = $\frac{5}{2}$; start at (0,0)
- 3. slope = $-\frac{5}{3}$; start at (0,0)

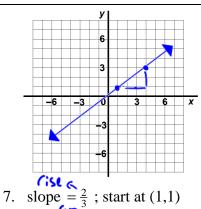


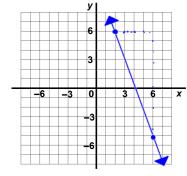


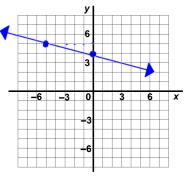


- 5. slope = $\frac{4}{3}$; start at (0,0) 1 - Jun
- 6. slope = -3; start at (0,0)

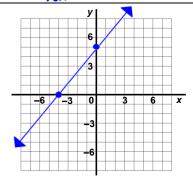
For the remaining graphs notice that the requested start point for the *run* is no longer at the origin.

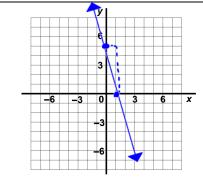


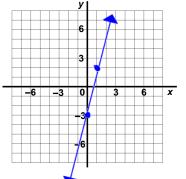




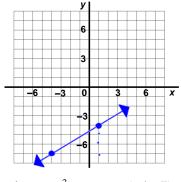
- 8. slope = $-\frac{11}{4}$; start at (2,6)
- 9. slope = $-\frac{1}{5}$; start at (-5,5)

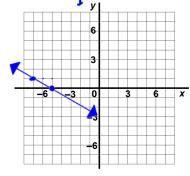


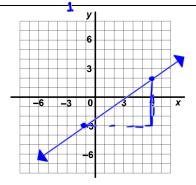




- 10. slope = $\frac{5}{4}$; start at (-4,0)
- 11. slope = -6; start at (0,5)
- 12. slope = 5; start at (0,-3)







- 13. slope = $\frac{3}{5}$; start at (-4,-7)
- 14. slope = $-\frac{1}{2}$; start at (-7,1)
- 15. slope = $\frac{5}{7}$; start at (-1,-3)

To Check Answers:

If drawn correctly, your line will also go through the point indicated below. (A near miss probably means that you just need to be more careful when lining up your ruler to draw the line—try it!)

- 1. (-5,-4)
- 2. (-2,-5)
- 3. (-3,5)
- 4. (-6,2)
- 5. (2,8)
- 6. (-1,3)

- 7. (7,5)
- 8. (6,–5)
 - 9. (5,3)
- 10. (-8,-5) 11. (2,-7)
- 12. (-1,-8)

- 13. (6,-1)
- 14. (1,–3)
 - 15. (-8,-8)