

Name _____

Date _____

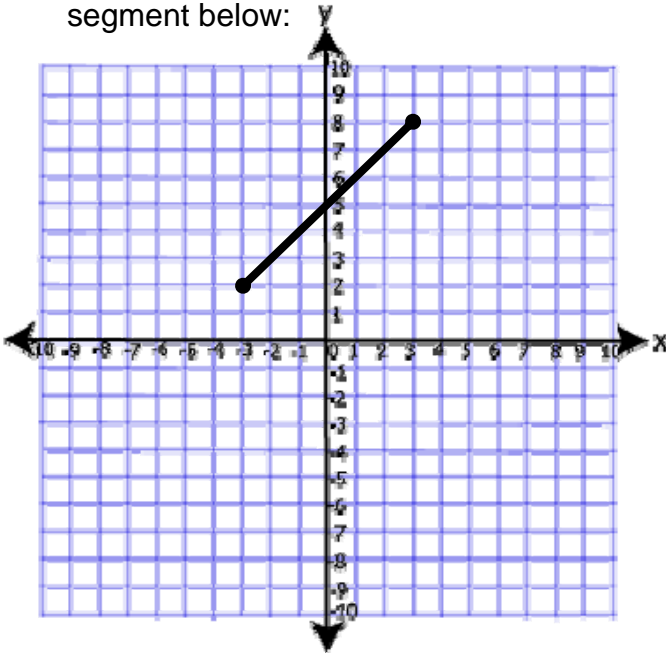
Topic 3: Graphing a line

Finding the slope and the y-intercept

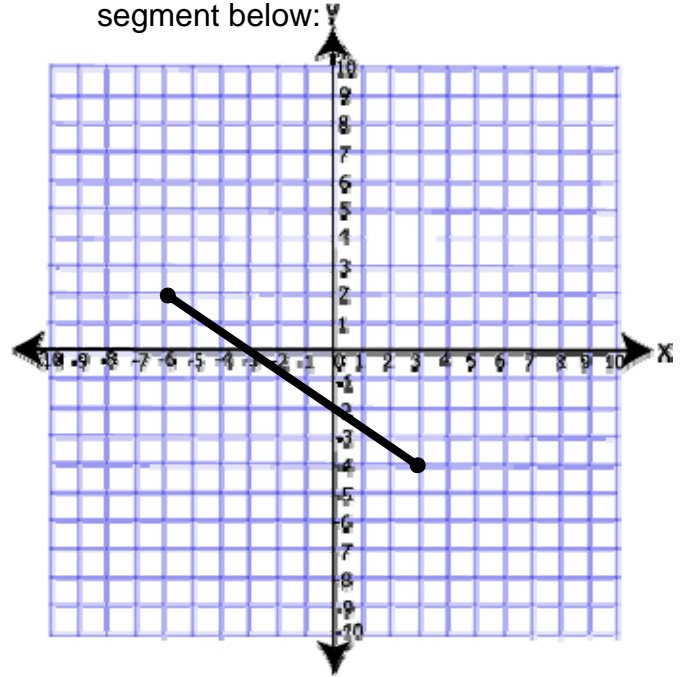
Video Help 1: <https://learnzillion.com/lessons/3463-find-the-slope-and-yintercept-of-a-line>

Video Help 2: <https://learnzillion.com/lessons/1415-find-the-slope-of-a-line-on-the-coordinate-plane>

- 1) Find the slope and y-intercept of the line segment below:



- 2) Find the slope and y-intercept of the line segment below:



- 3) Find the slope and the y-intercept of the equation: $y = 3x - 5$

- 4) Find the slope and the y-intercept of the equation: $y = -\frac{2}{5}x + 4$

- 5) Find the slope and the y-intercept of the equation: $6y - 3x = -12$

- 6) Find the slope and the y-intercept of the equation: $\frac{1}{2}y + x = 5$

Finding the slope given two points

Video Help: <https://learnzillion.com/lessons/3462-find-the-slope-of-a-linear-function-using-two-points>

7) Find the slope of the line passing through the points (5, 8) and (4, 3)

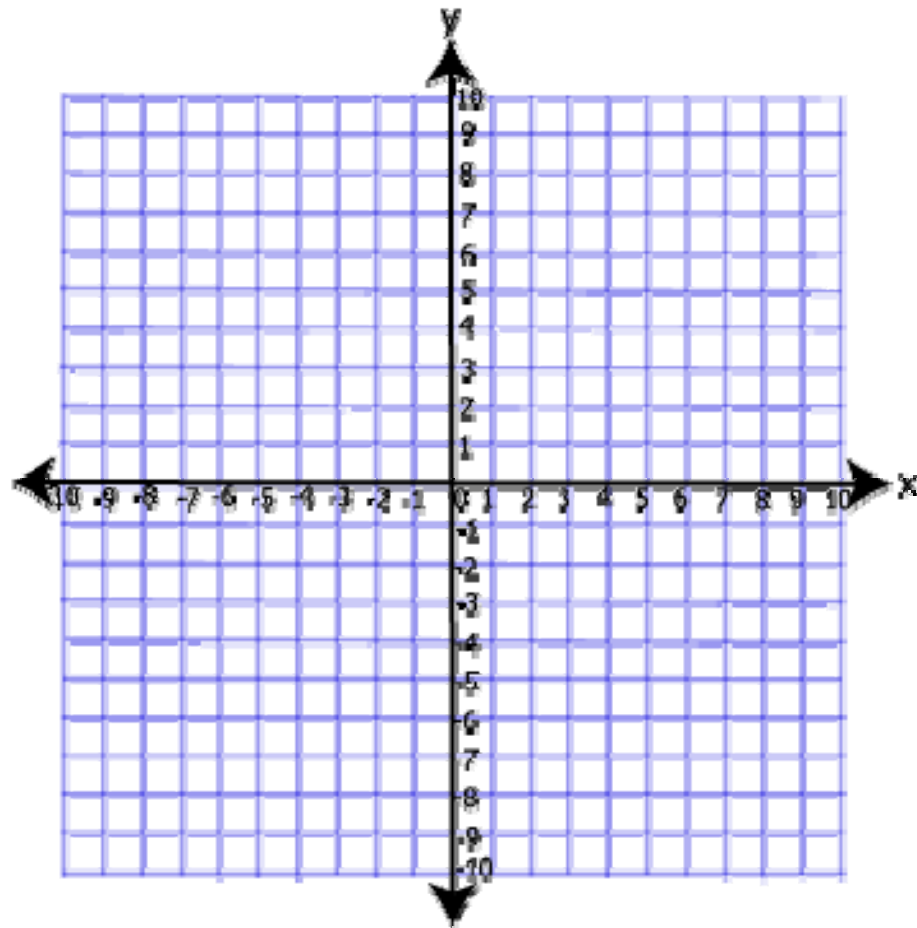
8) Point A(2, 7) and point B(6, 9) are on line AB. Find the slope of line AB.

Graphing a line in the form $y=mx+b$

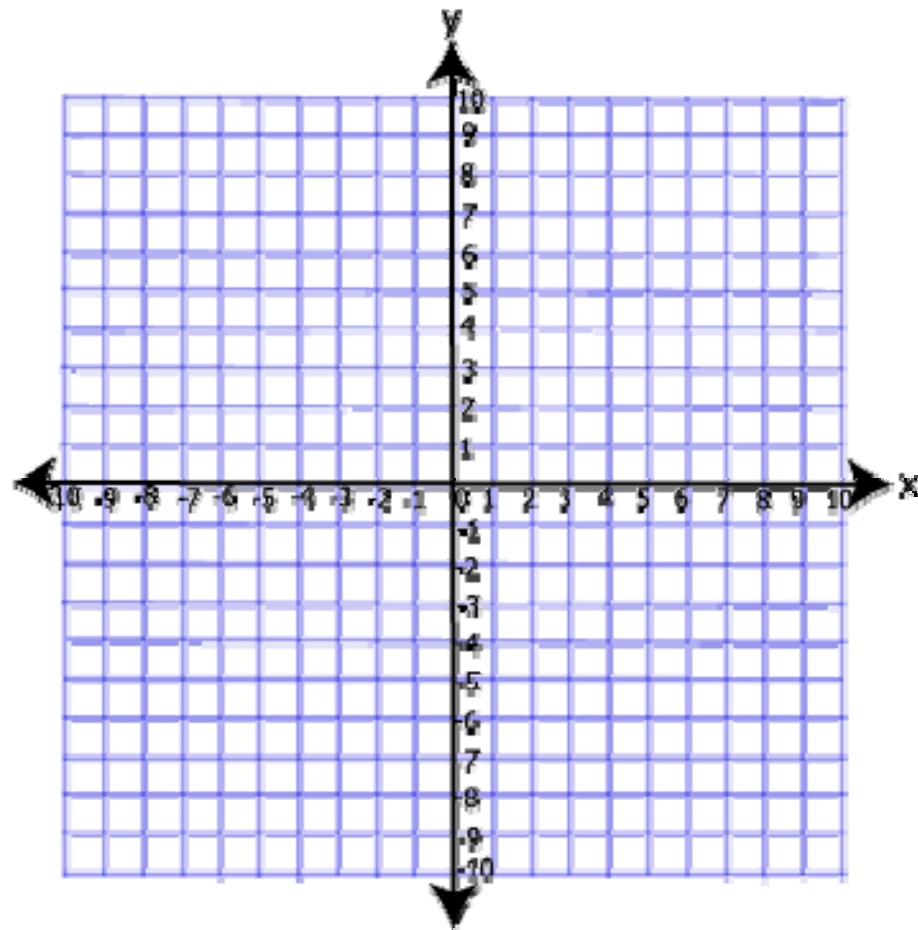
Video Help:

<https://learnzillion.com/lessons/247-graph-lines-in-slope-intercept-form>

9) Graph the line: $y = 2x - 7$



10) Graph the line: $y = \frac{-1}{3}x + 5$



11) Graph the line: $3y + 2x = 12$

