

# Slope of A line

Based on Online Lesson @:

[www.mathwarehouse.com/algebra/linear\\_equation/slope-of-a-line.php](http://www.mathwarehouse.com/algebra/linear_equation/slope-of-a-line.php)

**What is the slope of a line passing through (4, 3) and (3,1) ?**

1) What is the rise (or  $\Delta Y$ ) ?

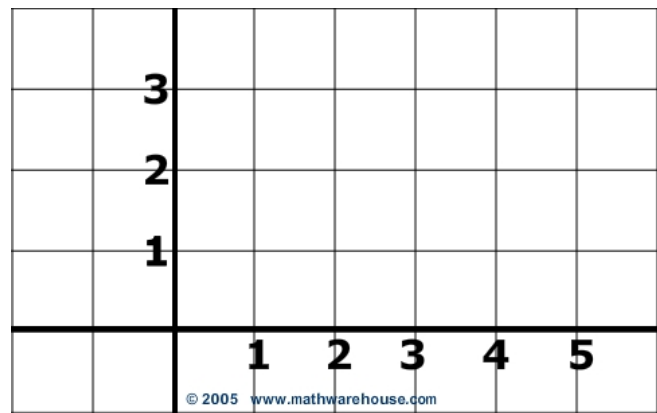
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2) What is the run (or  $\Delta X$ ) ?

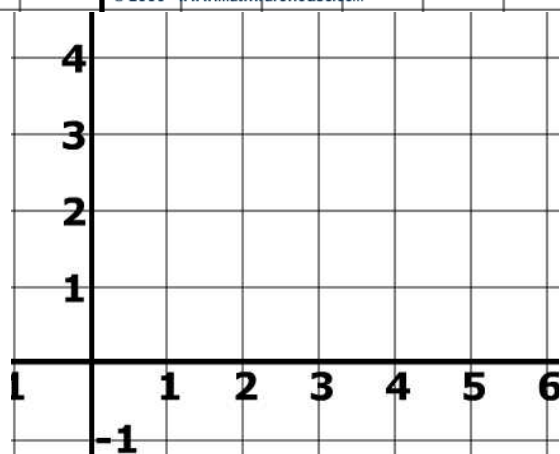
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3) What is the slope?

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4) Find the slope of a line passing through the points (1,1) and (4, 2)  
(Use the graph on the right)



Use the slope formula (without graphing) to find the slope of line passing through

5) the points (10,3) and (7 , 9)

6) (4, -2) and ( 4, 3)

7) (2,10) and (8 , 7)

8) (7, 3) and (8, 5 )

9) (5,7) and (8 , 5)

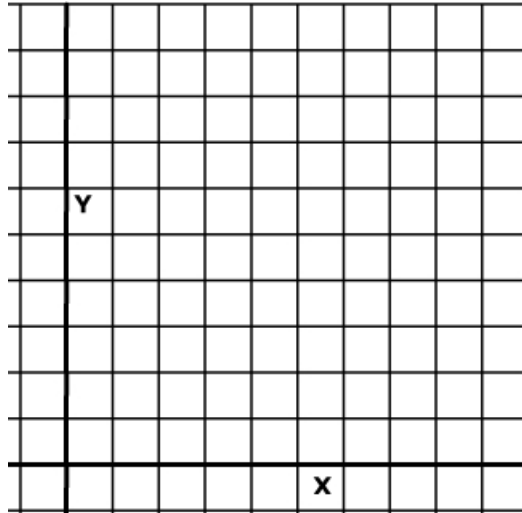
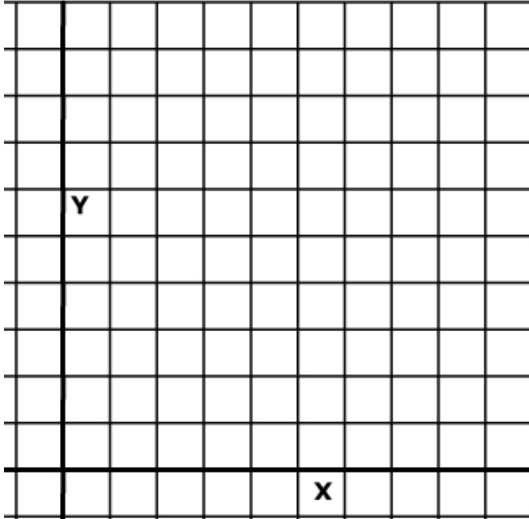
10) (4, 2) and (4, 5)

11) Graph the two points from question 7 and draw the line that goes them.

12) Graph the two points from question 8 and draw the line that goes them.

13) If a line has a **negative slope**, what is its general direction?  
If a line has a **positive slope**, what is its general direction?

14) Describe the direction of a line with a slope of zero.



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15) Maria, Jose, Michael and Jeffrey are working as partners. They need to find the slope of the line passing through (7, 3) and (5, 9). Each person wants to solve the problem differently. Explain who is going to find the correct slope of that line!

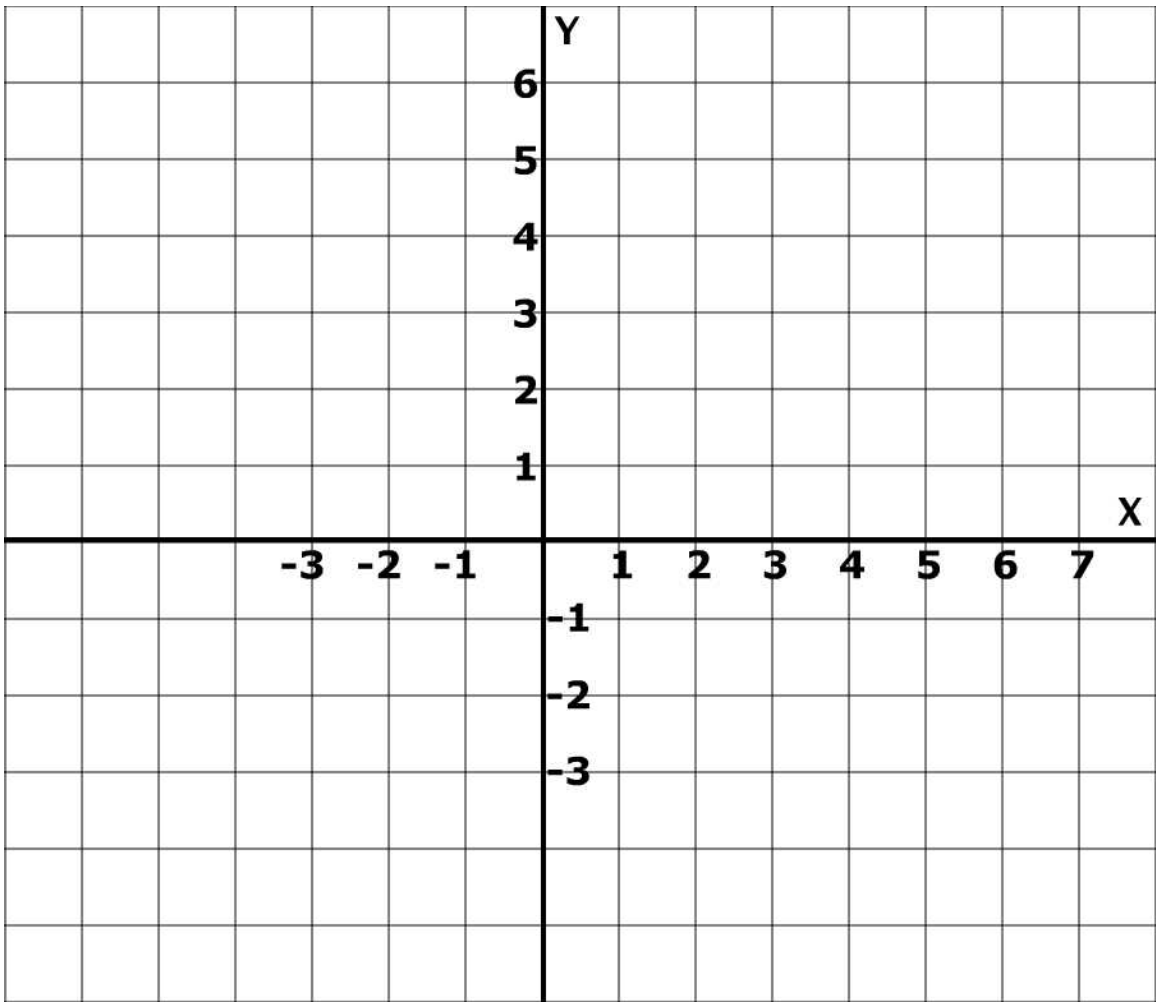
Here's how Jose wants to solve the problem  $\frac{9-3}{5-7}$

Here's, what Michael wants to do  $\frac{3-9}{7-5}$       Here's what Jeffrey wants to do  $\frac{3-9}{5-7}$

Here's how Maria wants to solve the problem  $\frac{9-3}{7-5}$

**Explain**

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