

<p>Determine the type of slope:</p> <p>5)</p> <p><u>negative</u></p>	<p>Determine the type of slope:</p> <p>9)</p> <p><u>negative</u></p>	<p>Determine the type of slope:</p> <p>2)</p> <p><u>positive</u></p>
<p>Determine the type of slope:</p> <p>3)</p> <p><u>undefined</u></p>	<p>Determine the type of slope:</p> <p>6)</p> <p><u>zero</u></p>	<p>Determine the type of slope:</p> <p>7)</p> <p><u>undefined</u></p>
<p>Determine the slope of the following points:</p> <p>(2,3) and (6,9)</p> $\frac{9-3}{6-2} = \frac{6}{4} = \frac{3}{2}$	<p>Determine the slope of the following points:</p> <p>(3,2) and (7,10)</p> $\frac{10-2}{7-3} = \frac{8}{4} = 2$ <p>or $\frac{2}{1}$</p>	<p>Determine the slope of the following points:</p> <p>(5,4) and (8,2)</p> $\frac{2-4}{8-5} = \frac{-2}{3}$

Determine the slope of the following points:

(2,-1) and (-5, -1)

$$\frac{-1-1}{-5-2} = \frac{0}{-7} = 0$$

Determine the slope of the following points:

(-4,0) and (-4, -1)

$$\frac{-1-0}{-4-4} = \frac{-1}{0}$$

undefined

Determine the slope of the following points:

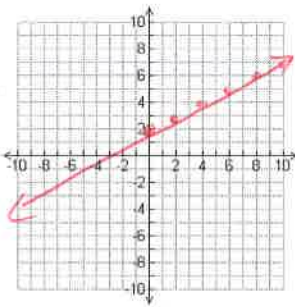
(0,8) and (-4, 0)

$$\frac{0-8}{-4-0} = \frac{-8}{-4} = 2 \text{ or } \frac{2}{1}$$

Graph the line that passes through the given point and has the given slope:

(0,2):

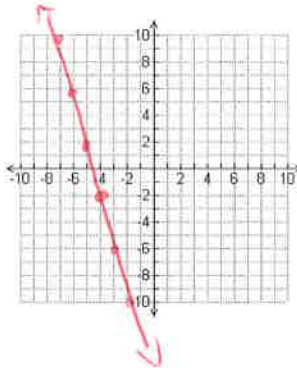
$$m = \frac{1}{2}$$



Graph the line that passes through the given point and has the given slope:

(-4,-2)

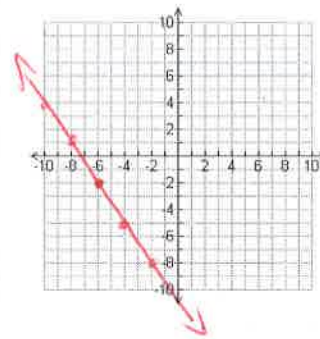
$$m = -\frac{4}{1}$$



Graph the line that passes through the given point and has the given slope:

(-6,-2)

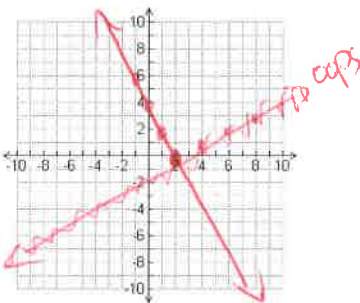
$$m = \frac{-3}{2}$$



Graph the line that passes through the given point and has the given slope:

(0,2):

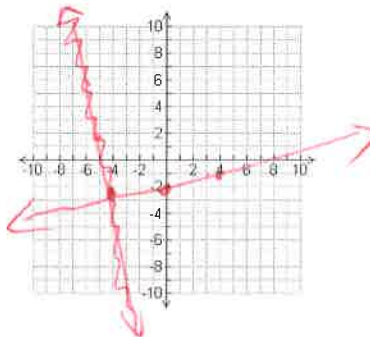
$$m = \frac{1}{2} \quad m = -\frac{2}{1}$$



Graph the line that passes through the given point and has the given slope:

(-4,-2)

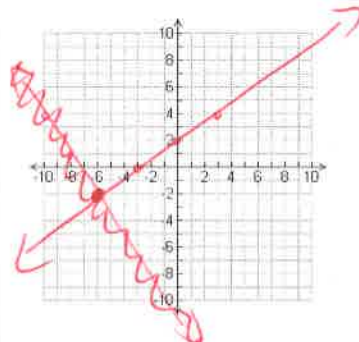
$$m = -4 \quad \frac{1}{4}$$



Graph the line that passes through the given point and has the given slope:

(-6,-2)

$$m = \frac{-3}{2} \quad \frac{2}{3}$$



Find the x-intercept of the following:

$$3x - 5y = -15$$

$$3x - 5(0) = -15$$

$$3x = -15$$

$$x = -5 \quad (-5, 0)$$

Find the x-intercept of the following:

$$-2x - 6y + 12 = 0$$

$$-2x - 6(0) + 12 = 0$$

$$-2x = -12$$

$$x = 6 \quad (6, 0)$$

Find the x-intercept of the following:

$$2x - 6y + 18 = 0$$

$$2x - 6(0) + 18 = 0$$

$$2x = -18$$

$$x = -9 \quad (-9, 0)$$

Find the y-intercept of the following:

$$2x - 6y + 18 = 0$$

$$2(0) - 6y + 18 = 0$$

$$-6y = -18$$

$$y = 3 \quad (0, 3)$$

Find the y-intercept of the following:

$$3x - 5y = -15$$

$$3(0) - 5y = -15$$

$$-5y = -15$$

$$y = 3 \quad (0, 3)$$

Find the y-intercept of the following:

$$-2x - 6y + 12 = 0$$

$$-2(0) - 6y + 12 = 0$$

$$-6y = -12$$

$$y = 2 \quad (0, 2)$$

Find the rate if I paid my plumber for 10 hours and owed him \$550. I called him back for another job and he worked 19 hours and I owed him \$937.

$$\frac{937 - 550}{19 - 10} = \frac{387}{9} = \$43$$

How much for him to show up to my house?

$$550 = 10(43) + c$$

$$\$120$$

I went in a cab and drove for 25 km and it cost \$37.50. Then I took another cab for 38 km and it cost \$55.05. What is the rate?

$$\frac{55.05 - 37.50}{38 - 25} = \frac{17.55}{13} = \$1.35$$

How much does the cab driver charge to pick me up?

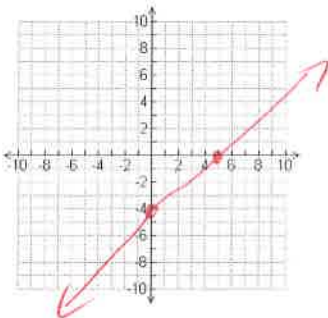
$$37.50 = 25(1.35) + c$$

$$\$3.75$$

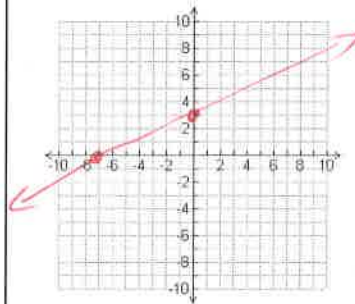
A computer technician does house calls and charges \$35 an hour and \$25 to show up. Write an equation to show the total cost that he would charge.

$$T = 35x + 25$$

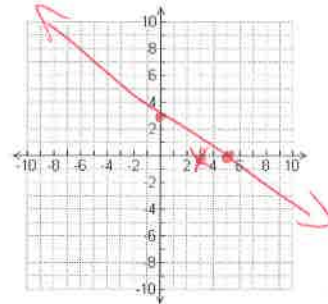
Graph the following line with the given info: x-int 5 and y-int -4



Graph the following line with the given info: y-int 3 and x-int -7



Graph the following line with the given info: A(0,3) and B(5,0)



<p>Determine if the following slopes are parallel, perpendicular, <u>neither</u>:</p> $m_1 = -3$ $m_2 = \frac{-1}{3}$	<p>Determine if the following slopes are <u>parallel</u>, perpendicular, neither:</p> $m_1 = \frac{4}{6} \frac{2}{3}$ $m_2 = \frac{2}{3}$	<p>Determine if the following slopes are parallel, perpendicular, <u>neither</u>:</p> $m_1 = \frac{1}{3}$ $m_2 = 3$
<p>Determine the slope parallel to</p> $m = \frac{-5}{2} \quad \frac{-5}{2}$	<p>Determine the slope perpendicular to</p> $m = -3 \quad \frac{1}{3}$	<p>Determine the slope perpendicular to</p> $m = \frac{-1}{4} \quad 4$
<p>Determine the value of k, if these two slopes are <u>parallel</u>:</p> $m_1 = \frac{5}{6}$ $m_2 = \frac{k}{4}$ $\frac{5}{6} = \frac{k}{4}$ $\frac{10}{12} = \frac{3k}{12}$ $10 = 3k$ $\frac{10}{3} = k$	<p>Determine the value of k, if these two slopes are parallel:</p> $m_1 = \frac{k}{3}$ $m_2 = \frac{-5}{2}$ $\frac{k}{3} = \frac{-5}{2}$ $\frac{2k}{6} = \frac{-15}{6}$ $2k = -15$ $k = \frac{-15}{2}$	<p>Determine the value of k, if these two slopes are parallel:</p> $m_1 = 2$ $m_2 = \frac{2k}{3}$ $\frac{2}{1} = \frac{2k}{3}$ $\frac{6}{3} = \frac{2k}{3}$ $k = 3$
<p>Determine the value of k, if these two slopes are perpendicular:</p> $m_1 = \frac{5}{6}$ $m_2 = \frac{k}{4}$ $\frac{-6}{5} = \frac{k}{4}$ $\frac{-24}{20} = \frac{5k}{4}$ $-24 = 5k$ $\frac{-24}{5} = k$	<p>Determine the value of k, if these two slopes are perpendicular:</p> $m_1 = \frac{k}{3}$ $m_2 = \frac{-5}{2}$ $\frac{k}{3} = \frac{2}{5}$ $\frac{5k}{15} = \frac{6}{15}$ $5k = 6$ $k = \frac{6}{5}$	<p>Determine the value of k, if these two slopes are perpendicular:</p> $m_1 = 2$ $m_2 = \frac{2k}{3}$ $\frac{-1}{2} = \frac{2k}{3}$ $\frac{-3}{6} = \frac{4k}{6}$ $-3 = 4k$ $\frac{-3}{4} = k$