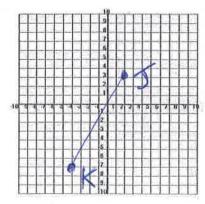
1swer

Plot the line segment with the following endpoints:

J(2,3), K(-4,-7)



What is the slope of the line segment

above? -10 = 1

What are the coordinates of two other points on the line?

(4,-2) (5,8)

What is the slope of a line perpendicular

M= -3

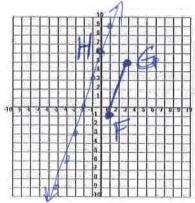
The peaked roof on a hut has apitch of 3/5. If the roof has a total span of 12m, how tall is the roof?

 $\frac{3}{5} = \frac{h}{6} h = \frac{18}{6} = 3.6$

11. A line has a slope of $\frac{-3}{5}$ and an xintercept at (-10,0). Find the yintercept. (0, y)

 $M = \frac{y_2 - y_1}{x_2 - x_1}$ $-\frac{3}{5} = \frac{y - 0}{0 - (-10)}$ y = -6 $X = \frac{y - 0}{x}$ x = 4 (4, 0) x = 4

Plot the line segment FG with endpoints at F(1, -1) and a midpoint at G(3,5).



What is the slope of the line segment

rise = 6 = 3

7. What is the slope of a line parallel to FG.

same slope

M= =

Plot a parallel line through H(0,6)

see graph

10. Find the x-intercept and y-intercept of a line that has the equation 2x + 3y = 18.

x=1 (9,0) y=18 y=18 y=6 y=18 y

12. A line has a slope of $\frac{5}{2}$ and an y-intercept at (0, -10). Find the x-intercept. (\times, \circ)

 $\frac{5}{2} = \frac{0 - (-10)}{\chi - 0}$