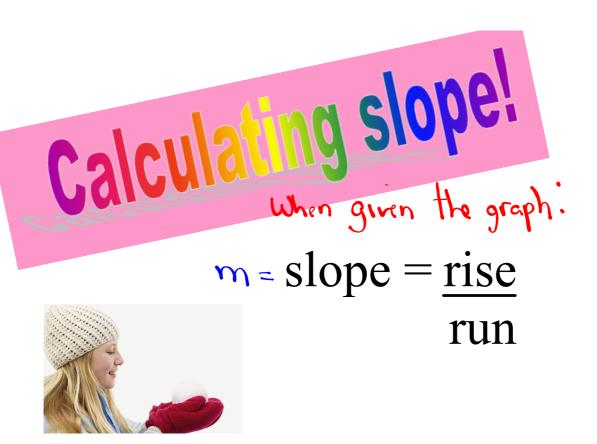
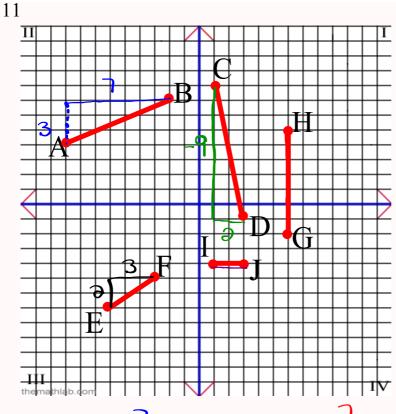


Building stairs should not exceed a slope of 0.83









$$slope = \underline{rise}$$
run

This is used when you can see the graph!

$$AB = 3$$

$$CD = \frac{9}{3}$$

$$\mathbf{EF} = \frac{3}{3}$$

$$GH = \frac{1}{0} = undefined (Vertical 1)$$

$$IJ = \frac{1}{0} = 0 \quad (Horizontal \iff)$$

Slope of a Horizontal Line = 0

$$= 0 = 0$$

Slope of a Vertical Line = Undefined or 1/0

= 1/0 or Undefined =
$$\frac{1}{0}$$

Calculating slope!

$$m = slope = \frac{y_2 - y_1}{x_2 - x_1}$$



$$\mathbf{m} = \frac{y_2 - y_1}{x_2 - x_1}$$

$$\mathbf{m} = \frac{y_2 - y_1}{x_2 - x_1}$$

$$m = \frac{8 - (-3)}{-5 - 3}$$

This is used when you are given co-ordinates.

$$m = \frac{8+3}{-5-3}$$

$$M = \frac{1}{11} = -\frac{1}{11}$$

Find the slope of a line passing through the points (-5, -7) and (-3, 9).

$$(x_0, y_0)$$
 (x_0, y_0)

$$(x_a, y_a)$$

$$\mathbf{m} = \frac{y_2 - y_1}{x_2 - x_1}$$

$$m = \frac{9+7}{-3+5}$$

$$M = \frac{16}{9} = 8$$

Find the slope of a line passing through the points (6, -4) and (-2,10).

$$(x_{1},y_{1})$$
 (x_{3},y_{3})

$$\mathbf{m} = \frac{y_2 - y_1}{x_2 - x_1}$$

$$m = 10 - (-4)$$

$$-3 - 6$$

$$m = \frac{10 + 4}{-3 - 6}$$

$$m = \frac{14}{-8} = -\frac{7}{4} \text{ (run)}$$

Calculate the slope.

$$m = \frac{y_2 - y_1}{x_2 - x_1}$$

$$m = \frac{8-5}{2-3}$$

$$m = \frac{3}{-1}$$

$$m = \frac{-3}{1_1}$$

2. (-9,-2) (7,3) 3. (-1,2) (0,-4) $m = \frac{y_2 - y_1}{x_2 - x_1}$ $m = \frac{y_2 - y_1}{x_2 - x_1}$

$$m = \frac{y_2 - y_1}{x_2 - x_1}$$

$$m = \frac{3 - (-2)}{7 - (-9)}$$

$$m = \frac{3+2}{7+9}$$

$$m = \frac{5}{16}$$

$$m = \frac{y_2 - y_1}{x_2 - x_1}$$

$$m = \frac{-4-2}{0-(-1)}$$

$$m = \frac{-4-2}{0+1}$$

$$m = \frac{-6}{1}$$