

$$x-4=2(y-3)$$

$$2x+1 = x - 6y$$

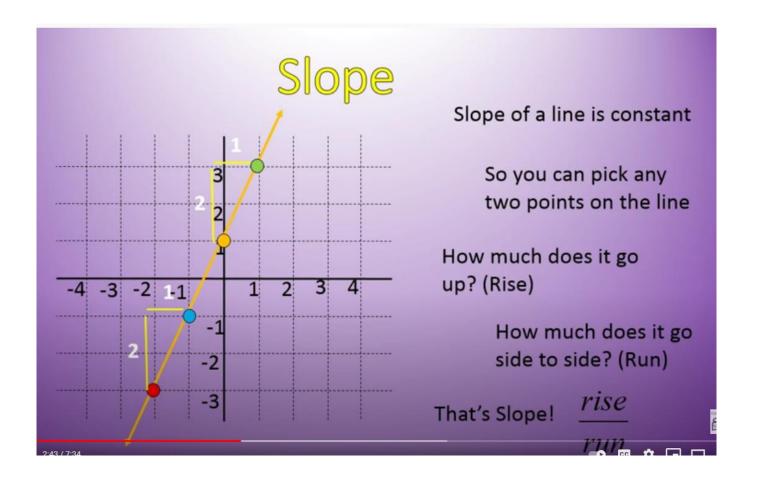
$$y = x + 2 - 4x + 1$$

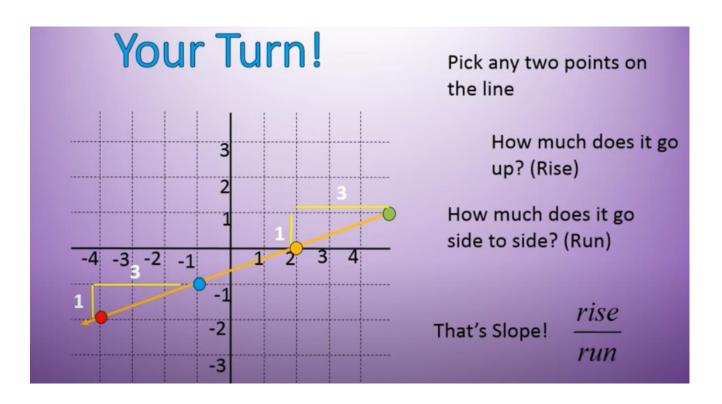
NOT Linear

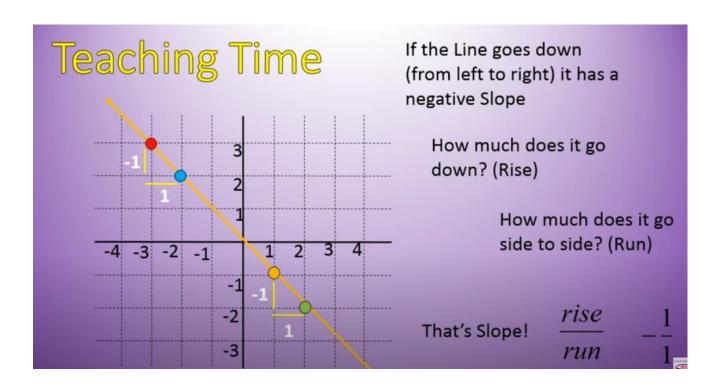
$$y = x^2 - 4$$

$$y = x^2 - 8x + 3$$

$$x^3 + 4 = y^3 + 9$$

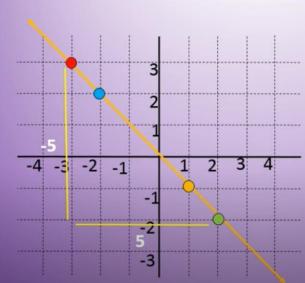






Extension

What if I pick the Red and Green Points?



How much does it go down? (Rise)

How much does it go side to side? (Run)

$$\frac{rise}{run} - \frac{5}{5} = -\frac{1}{1}$$

Find The Slope 3 2 -4 -3 -2 -1 1 2 3 4

-3

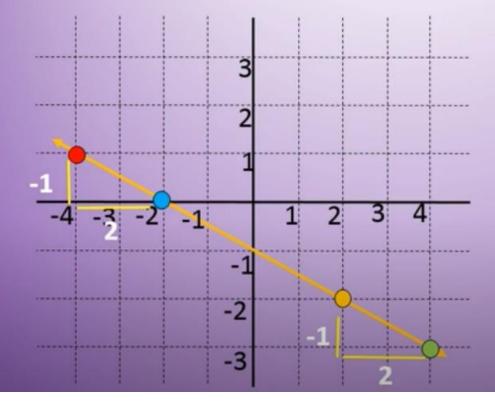
Pick any two points on the line

How much does it go up? (Rise)

How much does it go side to side? (Run)

That's Slope! $\frac{rise}{run}$

Find The Slope



Pick any two points on the line

How much does it go up? (Rise)

How much does it go side to side? (Run)

That's Slope!
$$\frac{rise}{run} - \frac{1}{2}$$