

**MasterMath**

**Algebra**

**SLOPE OF A LINE**




---

---

---

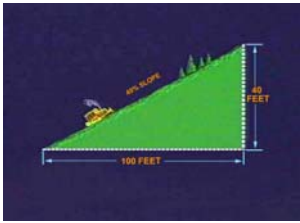
---

---

---

---

---



Slope (m) =  $\frac{\text{rise}}{\text{run}}$

Slope (m) =  $\frac{40}{100}$

Slope (m) = .4

Rise = how far up or down

Run = how far left or right

**Slope**

---

---

---

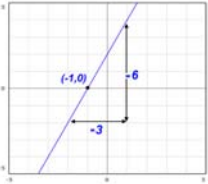
---

---

---

---

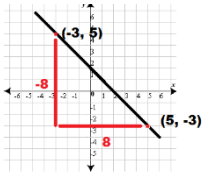
---



Slope =  $\frac{\text{rise}}{\text{run}}$

Slope =  $\frac{-6}{-3}$

m = 2



Slope =  $\frac{-8}{8}$

Slope = -1

**Slope**

---

---

---

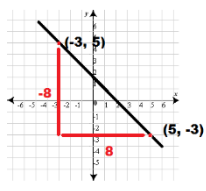
---

---

---

---

---



Slope =  $\frac{\Delta y}{\Delta x}$

Slope =  $\frac{5 - (-3)}{(-3) - 5}$

Slope =  $\frac{8}{-8} = -1$

Slope =  $\frac{-8}{8}$

$m = -1$

Slope

---

---

---

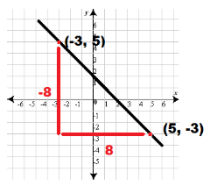
---

---

---

---

---



x	-2	-1	0	1	2	3
y = -x + 2	4	3	2	1	0	-1

x	-2	-1	0	1	2	3
y = -x + 2	4	3	2	1	0	-1

Slope =  $\frac{\Delta y}{\Delta x}$

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

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

Slope

---

---

---

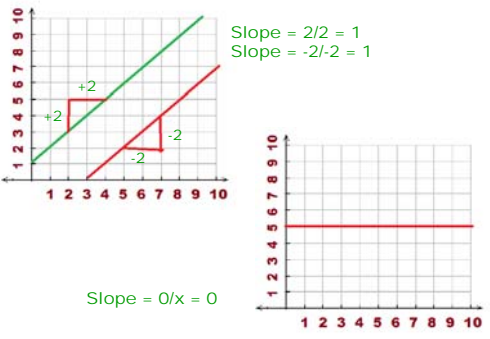
---

---

---

---

---



Slope =  $2/2 = 1$

Slope =  $-2/-2 = 1$

Slope =  $0/x = 0$

Slope

---

---

---

---

---

---

---

---

**You try it!**  
Find the slope

Slope

---

---

---

---

---

---

---

---

**You try it!**  
Find the slope

Slope =  $\frac{1}{3} = \frac{1}{3}$

Slope

---

---

---

---

---

---

---

---

**You try it!**  
Find the slope

x	-5	-4	-3	-2	-1	0
y = 2x - 6	-16	-14	-12	-10	-8	-6

Slope

---

---

---

---

---

---

---

---

**You try it!**  
**Find the slope**

x	-5	-4	-3	-2	-1	0
y = 2x - 6	-16	-14	-12	-10	-8	-6

x	-5	-4	-3	-2	-1	0
y = 2x - 6	-16	-14	-12	-10	-8	-6

$$\text{Slope} = \frac{\Delta y}{\Delta x} = \frac{-2}{-1} = 2$$

Slope

---

---

---

---

---

---

---

---

---

---

---

---

**You try it!**

Slope

---

---

---

---

---

---

---

---

---

---

---

---

**You try it!**

$$M = +3 / -8 = -.375$$

Slope

---

---

---

---

---

---

---

---

---

---

---

---