> TODAY'S AGENDA:

- Continue working on Khan Academy
- Mission: Engage NY Module 4
  > Slope from Equation

- Today's Objective:
  > Students will be able to determine the Slope of a Line

- Today's Standards:
  > 8.F.B.4, HSA.SSE.B.3, HSF.IF.C.7, HSF.IF.C.7a, HSF.IF.C.8

Slope from an Equation

$y = mx + b$

m ← slope

b ← y-intercept

What is the slope of the line?

$-4x + 7 = 2y - 3$

$y = mx + b$

Choose 1 answer:

- (A) -2
- (B) $-\frac{1}{3}$
- (C) -3
- (D) $-\frac{1}{2}$

$-4x + 7 = 2y - 3$

$+3$

$-4x + 10 = 2y$

2

$-2x + 5 = y$

What is the slope of the line?

$6x + 10y = 8$

Choose 1 answer:

- (A) $-\frac{4}{5}$
- (B) $-\frac{3}{4}$
- (C) $-\frac{5}{4}$
- (D) $-\frac{3}{5}$

$6x+10y=8$

$-6x \quad -6x$

$\frac{10y}{10} = \frac{-6x+8}{10}$

$\frac{-6}{10} = \frac{-3}{5}$

$y = \frac{-6}{10}x + \frac{8}{10}$

What is the slope of the line?

$y + 1 = 3(x - 4)$

Choose 1 answer:

- (A) $\frac{1}{3}$
- (B) $-\frac{4}{3}$
- (C) $-\frac{3}{4}$
- (D) 3

$y+1=3(x-4)$

$y+1=3x-12$

$-1 \quad -1$

$y=3x-13$

What is the slope of the line?

$4x - 1 = 3y + 5$

Choose 1 answer:

- (A) $\frac{2}{3}$
- (B) $\frac{3}{2}$
- (C) $\frac{3}{4}$
- (D) $\frac{4}{3}$

$4x - 1 = 3y + 5$

-5

$4x - 6 = 3y$

$\div 3$

$\frac{4}{3}x - 2 = y$