Video - Finding slope given graph

Example 1

Example 2

Video - Finding slope given 2 points

\[
m = \frac{y_2 - y_1}{x_2 - x_1}
\]

1. (3, 4) and (-2, 3)
2. (-2, 5) and (-3, 6)

Notes from the teacher. Please Read

Finding slope given \( y = mx + b \) is simple!
It's the m!!! The m is always in front of the x,
but that's only when it's \( y = \)

\[
y = 3x + 7
\]
Slope(m)

\[
y = 5 - 2x
\]
Slope(m)

\[
x + 8 = y
\]
When there isn't a number there.. Put a 1

\[
1x + 8 = y
\]
Slope(m)

Slope(m)

m = \frac{3}{4}
m = -2
m = 1
Video - Solving for y

1.) \[2x + 3y = 12\]
2.) \[-x + y = 10\]
3.) \[10x + 30y = 90\]
4.) \[3x - y = 9\]
5.) \[3 + x - y = 0\]

Slope Skills Handout - Pick up from Teacher

Video - parallel and perpendicular Lines

Parallel Lines Have ________________________________________

Perpendicular Lines Have ____________________________________
These Lines are parallel because....

These two Lines are Perpendicular Because...

When wouldn't a pair of lines be perpendicular?

Find the slope of a line perpendicular to this Line.

\[ y = \frac{2}{3}x - 1 \]

Find the slope of a line perpendicular to this Line.

\[ y = \frac{2}{3}x + \frac{1}{2} \]

\[ y = 2x + 8 \]

\[ y = -\frac{1}{2}x + 14 \]

Challenge Question
Are these lines parallel or Perpendicular?

\[ y = \frac{1}{2}x + 8 \]

\[ y = \frac{2}{3}x - 2 \]