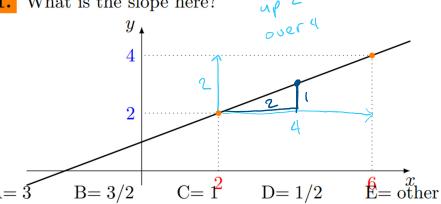
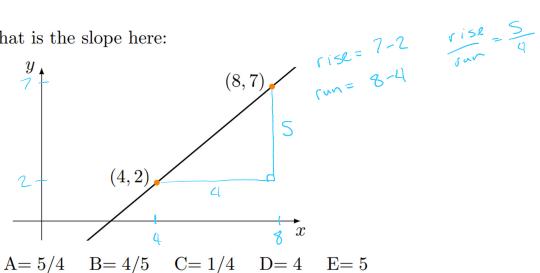
4-7 Lines

Thursday, January 13, 2022 1:36 PM

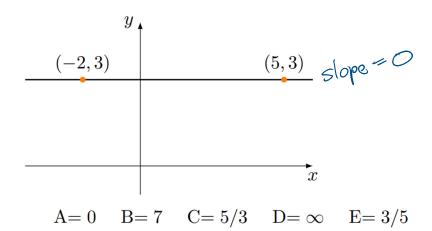
What is the slope here?



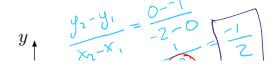
What is the slope here:

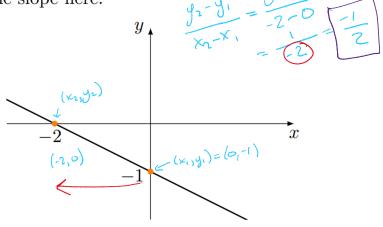


3. What is the slope here:



4. What is the slope here:



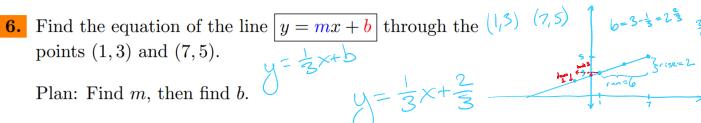


$$A = -1$$
 $B = 1$ $C = 1/2$ $D = -1/2$ $E = -2$

5. A line goes through two points: (x_0, y_0) and (x_1, y_1) . Find the slope of this line. Draw a picture!

A=
$$y_1 - y_0$$
 B= $(y_1 - x_1)/(y_0 - x_0)$
C= $(y_1 - y_0)(x_1 - x_0)$

$$D = (y_1 - y_0)/(x_1 - x_0)$$
 E= Shirley you're joking





- What is m? A = 1 B = 3 C = 5 D = 1/3E=2
- What do you get for *b*? A = 1/3 B = 4/3 C = 7/3 D = 8/3 E = 10/3
- 7. A line has slope 1/2 and goes through the point (2,5). What is the y-coordinate of the point on this line where

What is the y-coordinate of the point on this line where
$$x = 6?$$

$$y = \frac{1}{2} \times +6$$

$$S = \frac{1}{2} \cdot 2 +6 \quad 4 = 6$$

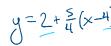
$$A = 3 \quad B = 4 \quad C = 5 \quad D = 6 \quad E = 7$$

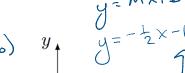
$$y = \frac{1}{2} \times +4 \quad y = \frac{1}{2}(6) +4 = 9 = 3 + 4 = 7$$
Plan: 1. Find equation of the line.

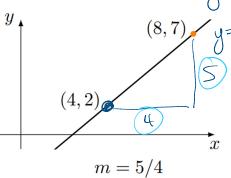
2. Plug in x = 6 to find y.

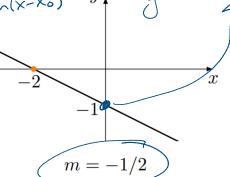
8. Find the equations of these lines (whose slopes we've

already found):

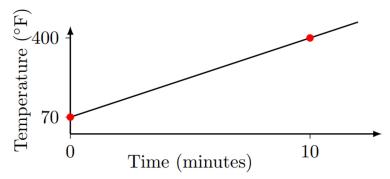








Example: This graph shows the temperature in an oven as it heats up:



9. How quickly (in °F/min) is the oven heating up?

A = 70 B = 10

C = 40 D = 33

E=Other

10. Where does the line y = 1 + x cross the line y = 3 - x? Find both the x and y coordinates of the crossing point.

Plan:

- 1. Draw a picture! showing two straight lines crossing.
- 2. Solve the two simultaneous equations
- 3. THINK why this gives the answer!

