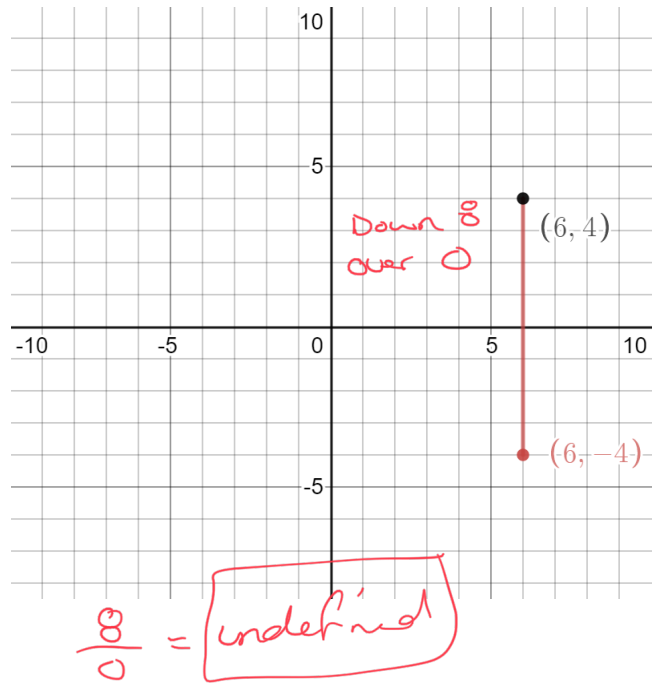
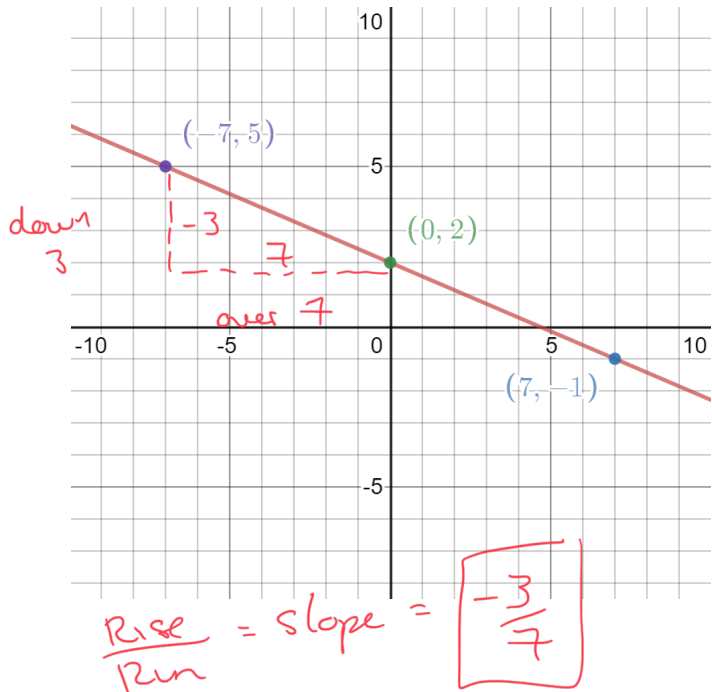


Section 2 – Final Practice – Check-In

What is the slope of the following lines below?



What is the slope of the line that goes through the following points?

3. ^{pt 1} (3, -4) and ^{pt 2} (7, -3)

$$\frac{y_2 - y_1}{x_2 - x_1} = \frac{-3 - (-4)}{7 - 3} = \frac{-3 + 4}{4} = \boxed{\frac{1}{4}}$$

4. ^{pt 1} (3, 8) and ^{pt 2} (9, -1)

$$\frac{-1 - 8}{9 - 3} = \frac{-9}{6} = \boxed{-\frac{3}{2}}$$

5. ^{pt 1} (1, 5) and ^{pt 2} (2, 5)

$$\frac{5 - 5}{2 - 1} = \frac{0}{1} = \boxed{0}$$

6. (13, -6) and (5, -3)

$$\frac{-3 - (-6)}{5 - 13} = \frac{-3 + 6}{-8} = \frac{3}{-8} = \boxed{-\frac{3}{8}}$$

7. Earth rotates at about 465m/sec at the equator. What is its speed in km/hr ?

$$\frac{465\text{m}}{1\text{sec}} \cdot \frac{1\text{km}}{1000\text{m}} \cdot \frac{60\text{secs}}{1\text{min}} \cdot \frac{60\text{mins}}{1\text{hr}}$$

$$\frac{465 \cdot 60 \cdot 60}{1000} = \frac{1674000\text{ km}}{1000\text{ hr}} =$$

$$\boxed{\frac{1674\text{ km}}{\text{hr}}}$$

8. Gill is a real estate agent. She sold a house for $\$740\,000$ and 7 years later (now) it sold for $\$995\,500$. What was the average rate of change in the price over the years.

$$\text{Rate of change } \frac{\$}{\text{yr}}$$

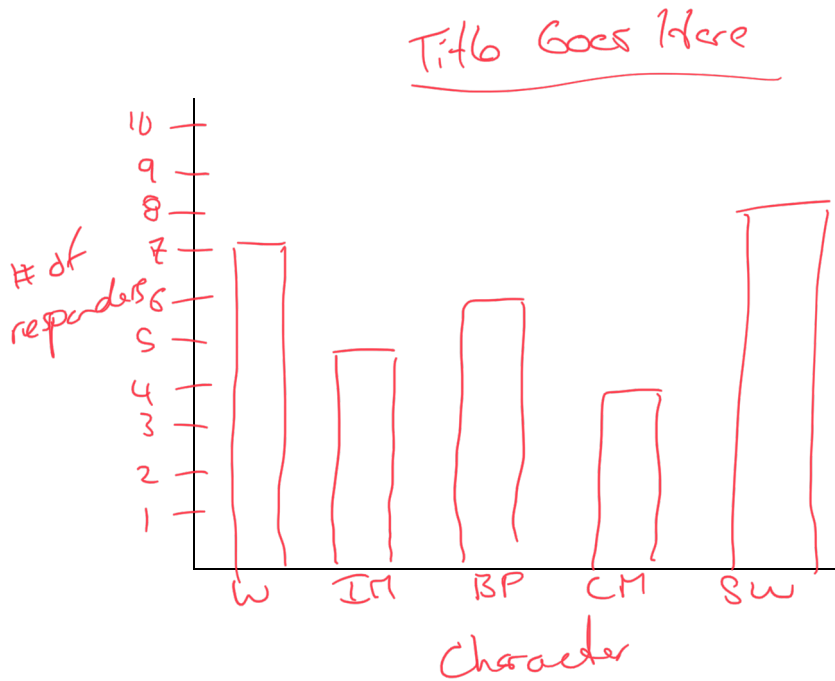
$$\frac{995\,500 - 740\,000}{7 - 0} = \frac{255\,500}{7} = \boxed{\frac{\$36\,500}{\text{yr}}}$$

9. If the house in the question above continued to increase in price at the same rate of change, then what would it be worth 5 years from now?

$$995\,500 + \left[\frac{\$36\,500}{1\text{yr}} \cdot 5\text{yr} \right]$$

$$995\,500 + 182\,500 = \boxed{\$1\,178\,000}$$

10. Graph the information below in a bar graph. Be sure to have axes titles and a title that explains the information being analyzed. Draw in all the scale markings for the axes.



Favorite Marvel Character	Number of Responders
Wolverine	7
Iron Man	5
Black Panther	6
Captain Marvel	4
Scarlet Witch	8

Reflection:

This Section has been....

I have struggled with....

I have been impressed with my.....