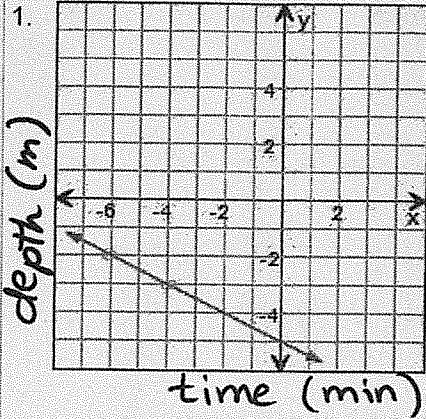


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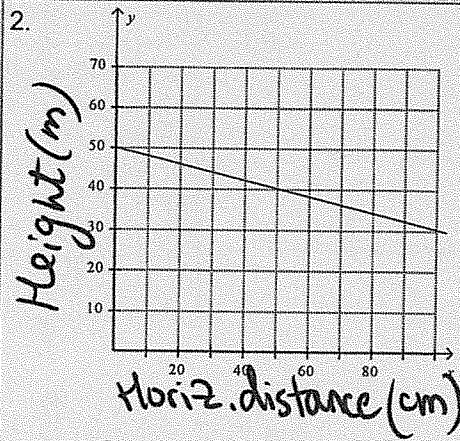
**DAY 4 - Slope from Graphs, recording as Rate of Change**

Record the slope and use units to write it as a rate of change.

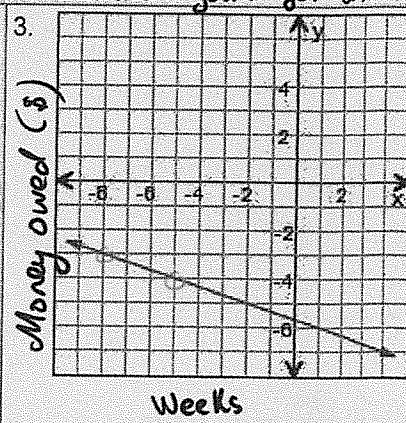
Note: This is just practice, the numbers you'll get will not be realistic



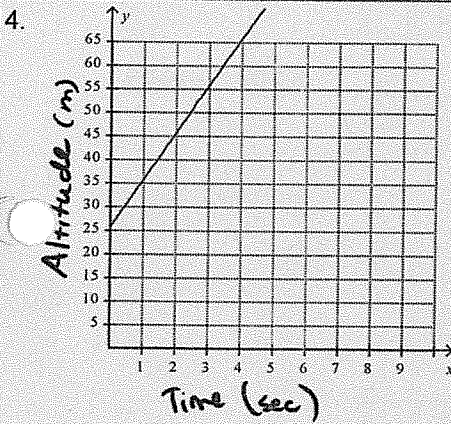
$$m = -\frac{1}{2} = -0.5 \text{ m/min}$$



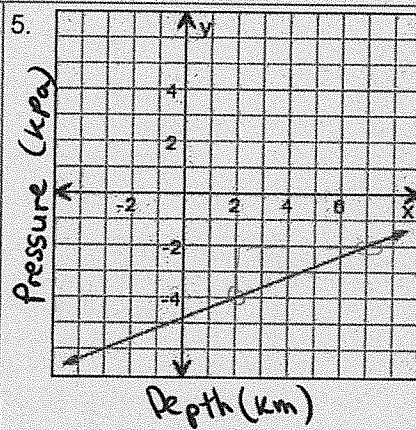
$$m = \frac{-10}{50} = -0.2 \text{ m/cm}$$



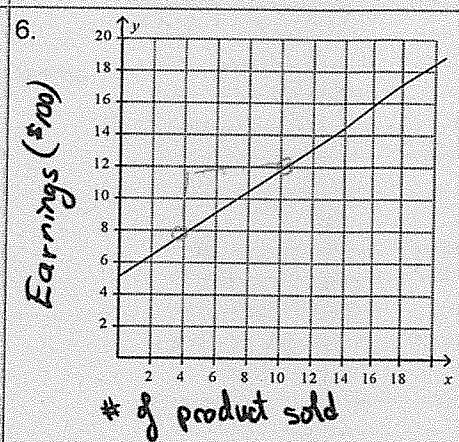
$$m = -\frac{1}{3} = -0.33 \text{ \$/week}$$



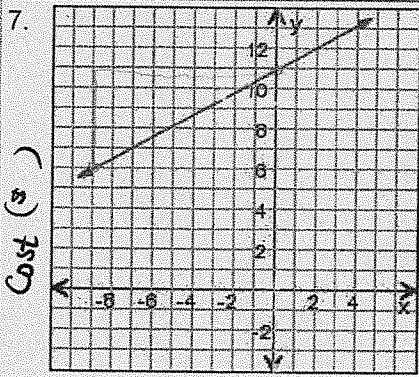
$$m = \frac{10}{1} = 10 \text{ m/sec}$$



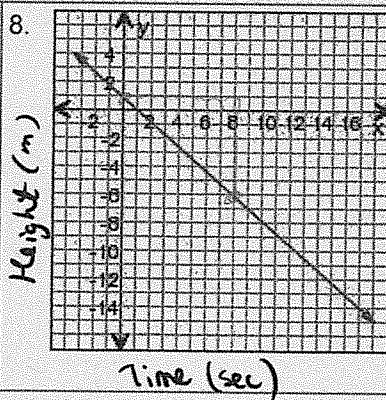
$$m = \frac{2}{5} = 0.4 \text{ kPa/km}$$



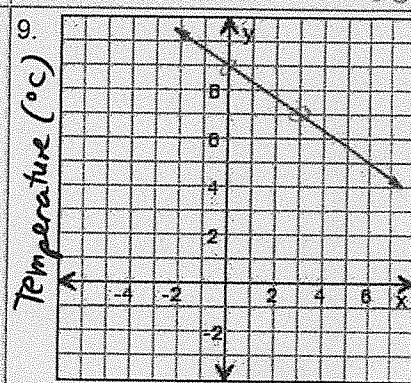
$$m = \frac{4}{6} = \frac{2}{3} = 0.666 \left( \frac{100 \text{ \$/product}}{\text{product}} \right) = \$66.7/\text{product}$$



$$m = \frac{5}{9} = 0.55 \text{ \$/item}$$



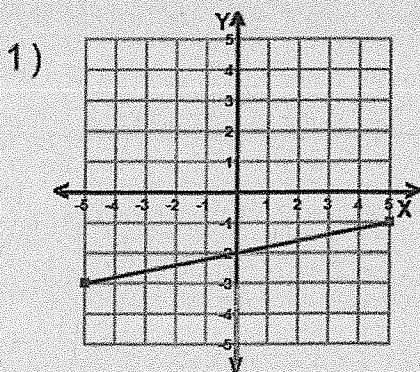
$$m = -\frac{7}{8} = -0.88 \text{ m/sec}$$



$$m = -\frac{2}{3} = -0.66 \text{ °C/month}$$

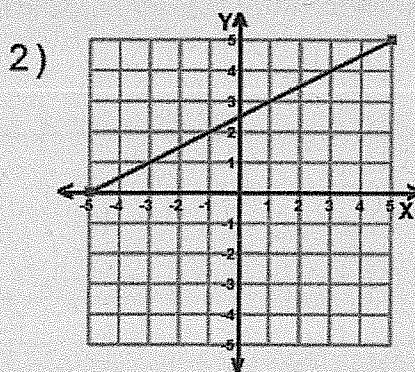
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## Find the Slope of Each Line



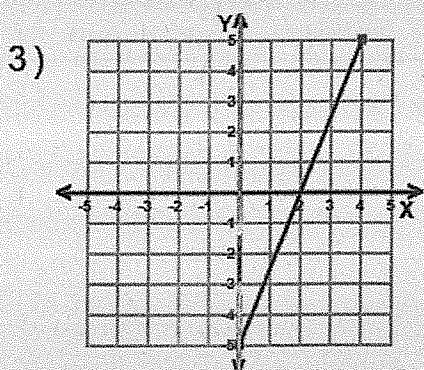
$$\text{slope} = \frac{1}{5}$$

$$y = \frac{1}{5}x - 2$$



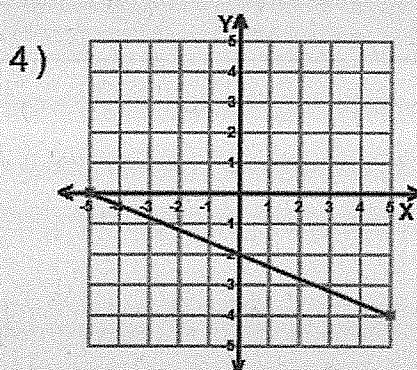
$$\text{slope} = \frac{1}{2}$$

$$y = \frac{1}{2}x + 2.5$$



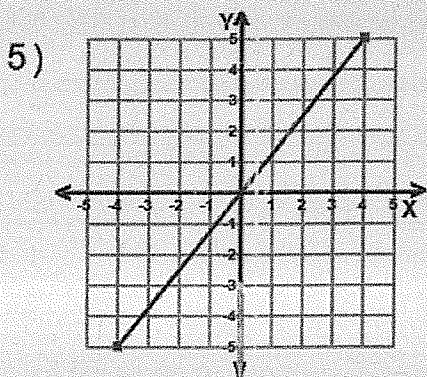
$$\text{slope} = \frac{5}{2}$$

$$y = \frac{5}{2}x - 5$$



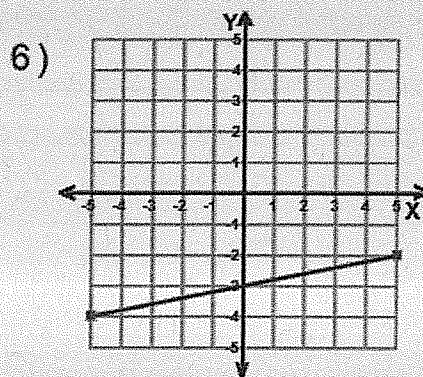
$$\text{slope} = \frac{-2}{5}$$

$$y = \frac{-2}{5}x - 2$$



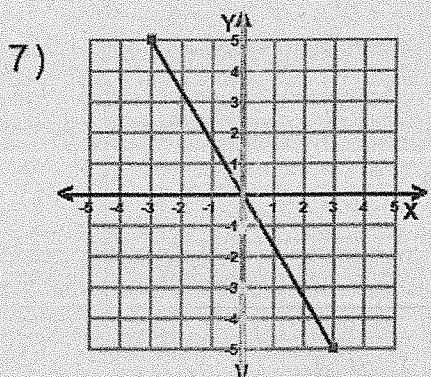
$$\text{slope} = \frac{5}{4}$$

$$y = \frac{5}{4}x + 0$$



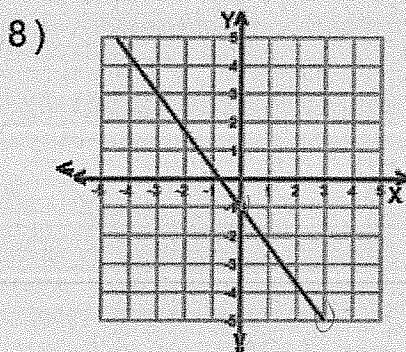
$$\text{slope} = \frac{1}{5}$$

$$y = \frac{1}{5}x - 3$$



$$\text{slope} = \frac{-5}{3}$$

$$y = \frac{-5}{3}x + 0$$



$$\text{slope} = \frac{-4}{3}$$

$$y = \frac{-4}{3}x - 1$$

9). For all of the above, add in the y-intercept, then record equation of each line in  $y=mx+b$  form

1.  $y = \frac{1}{5}x - 2$

3.  $y = \frac{5}{2}x - 5$

5.  $y = \frac{5}{4}x + 0$

2.  $y = \frac{1}{2}x + 2.5$

4.  $y = \frac{-2}{5}x - 2$

6.  $y = \frac{1}{5}x - 3$

8.