

HWU-A2

1. a. $(3, -4) \text{ & } (7, 2)$

$$\text{slope} = \frac{-4 - 2}{3 - 7} = \frac{-6}{-4} = \frac{3}{2}$$

3. a. $y = 14.3$

b. $x = 6.5625$

c. $a = -24$

d. $b = -1/4$

b. $(5, 3) \text{ & } (2, 5)$

$$\frac{3-5}{5-2} = \frac{-2}{3}$$

4. a. i) $y = -\frac{4}{3}x - 2$
ii) $y = \frac{3}{4}x - 2$

c. $(-0.02, 3.2) \text{ & } (0.08, -2.3)$

$$\frac{3.2 - -2.3}{-0.02 - 0.08} = \frac{5.5}{-1} = -5.5$$

b. i) $y = \frac{3}{2}x - 1$
ii) $y = \frac{3}{2}x + 4$

2. a. $y = 3x - 2$

slope: 3

b. $y = 4.2 - 2.8x$

slope: -2.8

c. $y = 5(3x - 3) + 2$

$$y = 15x - 13$$

slope: 15

d. $y - 2.4x = 5$

$$y = 2.4x + 5$$

slope: 2.4

e. ~~$4.7x + 3.2y = 12.9$~~

$$y = -1.47x + 4.03$$

slope: -1.47

f. $\frac{2}{3}y = \frac{2}{3}x + \frac{1}{2}$

slope: 1

d. 4b have the same slopes & are parallel

5. l: 2.5

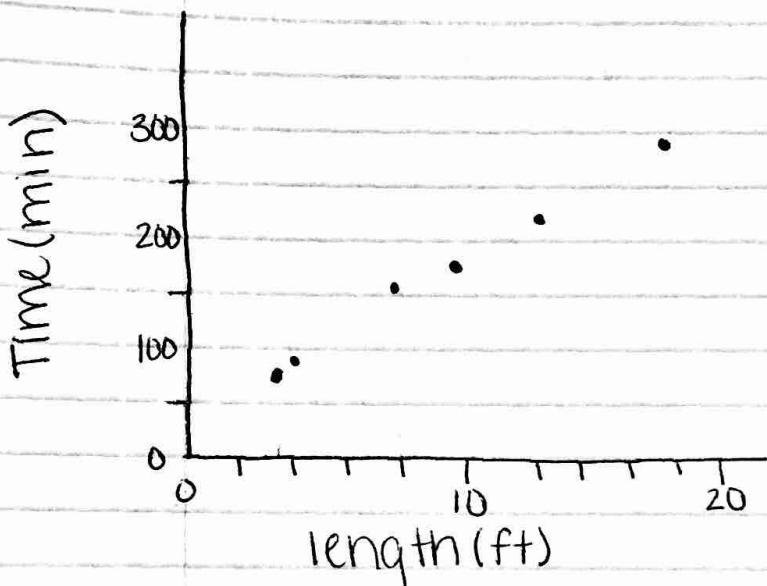
n: -2/5

6. a. rocket A, steepest slope

b. rocket B, smallest slope

c. rocket C, the slope

10. a. ~~Time~~ length of the hallway, it determines the time of the job.



b. $(3.5, 85) \& (9.5, 175)$

$$\frac{175 - 85}{9.5 - 3.5} = \frac{90}{6} = 15$$

The slope means it takes 15 min/ft.

- c. The first 2 pts because of their spacing

d. $y = 15x + b$

$$92 = 15(4) + b$$

$$32 = b$$

The job time no matter the size of the job.