

Algebra 1 (Lesson 5.3)

1. slope = $\frac{7 - (-2)}{5 - 2} = \frac{9}{3} = \boxed{3}$

3. slope = $\frac{9 - (-2)}{5 - 5} = \frac{11}{0}$ undefined

5. slope = $\frac{7 - (-8)}{-4 - 2} = \frac{15}{-6} = \boxed{-\frac{5}{2}}$

7. slope = $\frac{8 - 3}{10 - 5} = \frac{5}{5} = \boxed{1}$ (positive)

9. slope = $\frac{6 - 6}{8 - (-5)} = \frac{0}{13} = \boxed{0}$ (zero)

11. slope = $\frac{-2 - (-7)}{2 - 12} = \frac{5}{-10} = \boxed{-\frac{1}{2}}$ (negative)

13. slope = $\frac{170 - 110}{8 - 4} = \frac{60}{4} = \boxed{15}$

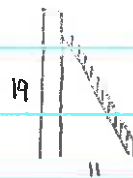
15. slope = $\frac{460 - 310}{3500 - 1000} = \frac{150}{2500} = \boxed{\frac{3}{50}}$

The money earned increases by \$15 per hour.

It costs \$3 for every 50 pages printed after starting at \$250.

20. slope = $\frac{0.37}{1}$

24. (A)



slope = $\boxed{\frac{19}{11}}$

$\frac{0.37}{1} = \frac{1}{x}$ $0.37x = 1$

$x = 2.70$ units

(B). Determines how steep the ladder is to climb.

(C). It would be harder because the rise would be greater than the run.