

Tamez-Key

1. Given an equation. Find the slope and y-intercept.

$y = 2x + 6$  Slope: 2

y-intercept: 6

Does this equation show direct variation? No

Remember to show all work/process!

2. Given an equation. Find the slope and y-intercept.

$y = \frac{1}{2}x$  Slope:  $\frac{1}{2}$

y-intercept: 0

Does this equation show direct variation? Yes

3. Write an equation for the relationship in the table.

Weeks	x	1	2	3
Trees Planted	y	20	40	60

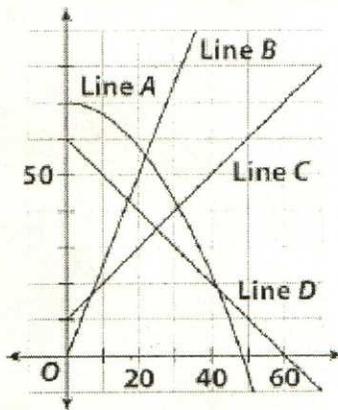
Equation:  $y = 20x$

4. Write an equation for the relationship in the table.

Weeks (x)	2	5	10
Trees Planted (y)	40	100	200

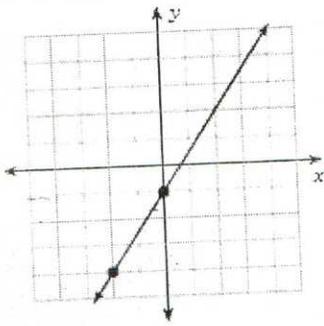
Equation:  $y = 20x$

Use this graph for #5-9



5. Which line is proportional? Line B
6. Which line shows direct variation? Line B
7. Which lines are linear? Lines B, C, D
8. Which line has a negative slope and is linear? Line D
9. Which lines have a positive slope and are linear? Line B, C

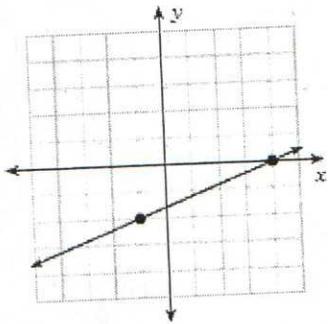
10. Find the slope and y-intercept.



Slope:  $\frac{3}{2}$

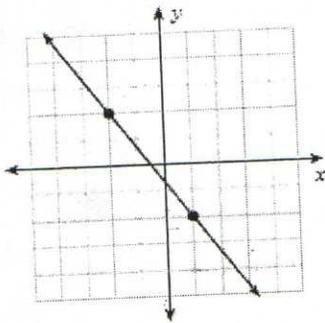
y-intercept:  $-1$

11. Find the slope.



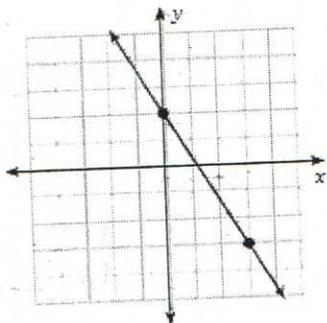
Slope:  $\frac{2}{5}$

12. Find the slope.



Slope:  $-\frac{4}{3}$

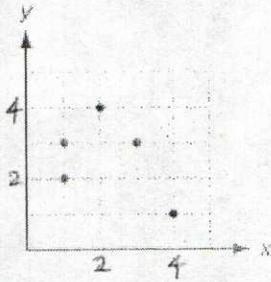
13. Find the slope and y-intercept.



Slope:  $-\frac{5}{3}$

y-intercept:  $2$

14. Tell whether the following relationship is a function.



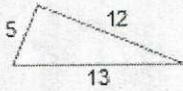
No

15. Tell whether the following relationship is a function.

$\{(0, 0), (1, 4), (2, 6), (3, 5)\}$

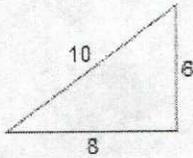
Yes

16. Do the following lengths form a right triangle?



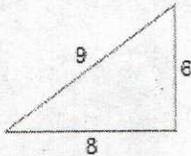
Yes

17. Do the following lengths form a right triangle?



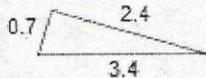
Yes

18. Do the following lengths form a right triangle?



No

19. Do the following lengths form a right triangle?



No

20. Find the mean.

# Words in Book Titles

1 2 5 1 2 3 3 3  
3 2

2.5

29. Find the upper quartile.

Hours Slept

7 7.75 6.25 6.75 8 6.25  
7.5 7.75 6 7 8

7.75

30. Find the interquartile range.

Goals in a Hockey Game

9 5 5 5 2 5 6 5  
7 4 6 7 2 6 7

2

31. Find the interquartile range.

# Words in Book Titles

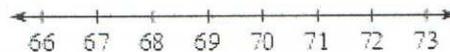
3 6 2 2 3 3 3 1  
2 1

1

32. Draw a box-and-whisker plot for the data set.

Mens Heights (Inches)

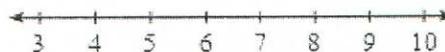
72 66 67 71 73 66 73  
70 67



33. Draw a box-and-whisker plot for the data set.

Goals in a Hockey Game

9 8 5 7 10 5 3 5  
3 7 9



34. Solve the equation.

$$4 + 2x = 14$$

$x = 5$

35. Solve the equation.

$$-6 - 2x = 10$$

$x = -8$

36. Solve the equation.

$$-7 + 10m = 13$$

$m = 2$