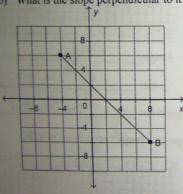
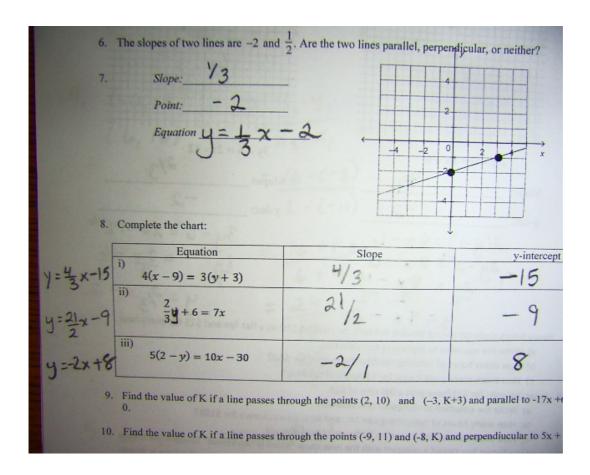


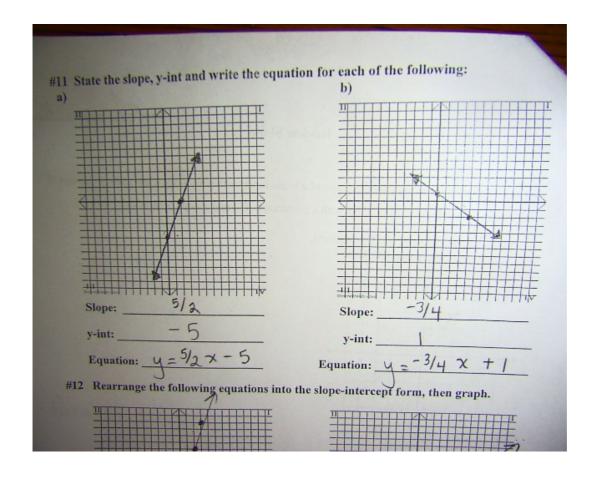
## **Review Slope**

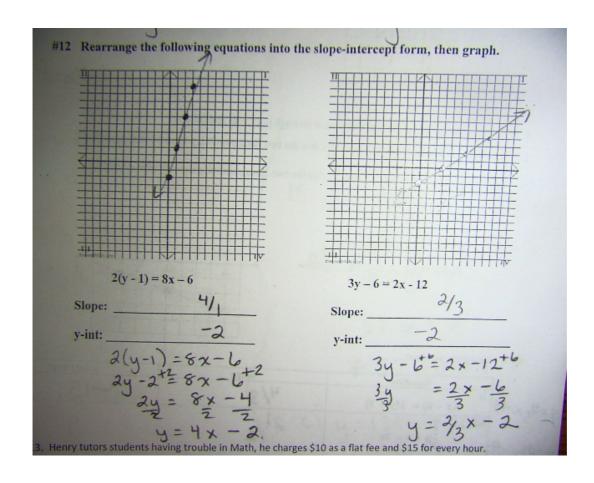
- Name: Answer Key
- 1. Write an equation (y=mx+b) for the graph of a linear function that has slope 8 and and a y-intercept of 7.
- 2. Write the equation(y=mx+b) of a line with a y-intercept of -4 and a slope perpendicular to 4/3.
- 3. a) Determine the slope of this line segment.
  - b) What is the slope perpendicular to it?

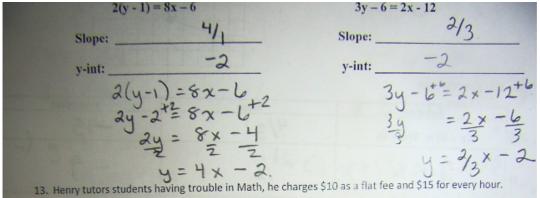


- 4. Determine the slope of the line that passes through (-11, -8) and (6, 16).
- 5. The slopes of two lines are  $\frac{6}{11}$  and  $\frac{6}{11}$ . Are the two lines parallel, perpendicular, or neither?
- 6. The slopes of two lines are -2 and  $\frac{1}{2}$ . Are the two lines parallel, perpendicular, or neither?









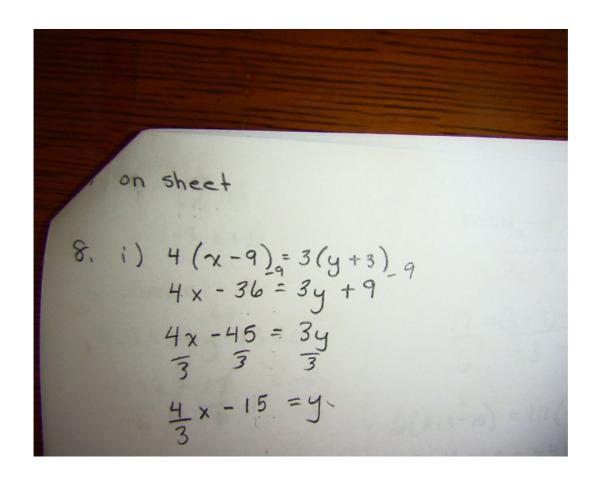
- - a) Write the equation to represent this situation.
  - b) How many hours of tutoring can Martha receive for \$58?
  - c) How much money will it cost for 11 hours of tutoring?
- 14. Susan babysits for \$19/hour plus a flat rate of \$10.
  - a) Write the equation to represent this situation.
  - b) How many hours of babysitting can Mr. and Mrs. Jones receive for \$168?
  - c) How much money will it cost for 12 hours of babysitting?
- 15. Brittany Spears has signed a contract with the new show "Math is Marvelous" to write the theme song "Math, Math, Math, OH how I love Math!!" She will get paid \$138 every time the song is played and receives a signing bonus of \$2050.
  - a) Write the equation to represent this situation.
  - b) How many times will the song have to play for Brittany to receive \$10 000?
  - c) How much money will Brittany get paid if the song plays 560 times?

1. 
$$y = mx + b$$
  
 $y = 8x + 7$   
2.  $y = mx + b$   
 $y = -\frac{3}{4}x - 4$   
3. a)  $m = -\frac{6}{6}$   
 $= -\frac{1}{4}$   
b) pup. +1/1

4. 
$$(-11, -8)$$
  $m = y_2 - y_1$   
 $(6, 16)$   $x_2 - x_1$   
 $= \frac{16 - (-8)}{6 - (-11)}$   
 $= \frac{16 + 8}{6 + 11}$   
 $= \frac{24}{17}$ 

5. 
$$\frac{6}{11}$$
,  $\frac{6}{11}$   $\Rightarrow$  parallel

6.  $-2$ ,  $\frac{1}{2}$   $\Rightarrow$  perpendicular



$$4x - 45 = 3y$$

$$4x - 45 = 3y$$

$$4x - 15 = y$$

$$2y + 18 = 21x - 18$$

$$2y + 18 = 21x - 18$$

$$2y = 21x - 18$$

$$2y = 21x - 9$$

(iii) 
$$5(2-y) = 10x - 30$$

$$10-5y = 10x - 30$$

$$-5y = 10x - 40$$

$$-5y = -5$$

$$y = -2x + 8$$

9. 
$$(2,10)$$
  
 $(-3, K+3)$   
parallel  
 $-17 \times + 6y - 13 = 0^{-6y}$   
 $-17 \times -13 = -6y$   
 $-6 = -6$   
 $-6 = -6$   
 $-6 = -6$   
 $-6 = -6$   
 $-6 = -6$   
 $-6 = -6$   
 $-6 = -6$   
 $-6 = -6$   
 $-6 = -6$   
 $-6 = -6$   
 $-6 = -6$   
 $-6 = -6$   
 $-6 = -6$   
 $-6 = -6$   
 $-6 = -6$   
 $-6 = -6$   
 $-6 = -6$   
 $-6 = -6$   
 $-6 = -6$   
 $-6 = -6$   
 $-6 = -6$   
 $-6 = -6$   
 $-6 = -6$   
 $-6 = -6$   
 $-6 = -6$   
 $-6 = -6$   
 $-6 = -6$   
 $-6 = -6$   
 $-6 = -6$   
 $-6 = -6$   
 $-6 = -6$   
 $-6 = -6$   
 $-6 = -6$   
 $-6 = -6$   
 $-6 = -6$   
 $-6 = -6$   
 $-6 = -6$   
 $-6 = -6$   
 $-6 = -6$   
 $-6 = -6$   
 $-6 = -6$   
 $-6 = -6$   
 $-6 = -6$   
 $-6 = -6$   
 $-6 = -6$   
 $-6 = -6$   
 $-6 = -6$   
 $-6 = -6$   
 $-6 = -6$   
 $-6 = -6$   
 $-6 = -6$   
 $-6 = -6$   
 $-6 = -6$   
 $-6 = -6$   
 $-6 = -6$   
 $-6 = -6$   
 $-6 = -6$   
 $-6 = -6$   
 $-6 = -6$   
 $-6 = -6$   
 $-6 = -6$   
 $-6 = -6$   
 $-6 = -6$   
 $-6 = -6$   
 $-6 = -6$   
 $-6 = -6$   
 $-6 = -6$   
 $-6 = -6$   
 $-6 = -6$   
 $-6 = -6$   
 $-6 = -6$   
 $-6 = -6$   
 $-6 = -6$   
 $-6 = -6$   
 $-6 = -6$   
 $-6 = -6$   
 $-6 = -6$   
 $-6 = -6$   
 $-7.2$ 

10. 
$$(-9,11)$$
  
 $(-8,K)$ 
 $m=y-y_1$   
 $x_2-x_1$ 
 $5x+3=4y$ 
 $-\frac{4}{7}=\frac{K-11}{5}$ 
 $5(K-11)=54(-8+9)$ 
 $5K-55=32-36+55$ 
 $5K=51$ 
 $5K=51$ 
 $5K=51$ 
 $5K=10.2$ 

11. 
$$R(6,9)$$
  
 $K(-6,16)$   
(a)  $slope_{RK} = \frac{14z^{2}y_{1}}{x_{2}x_{1}}$   
 $= \frac{15-9}{-6-6}$   
 $= \frac{6}{-12}$   
 $= -\frac{1}{2}$   
(b)  $lb6 = 19x + 10$   
 $= 19x + 10$   
 $= 19(12) + 10$   
 $= 238$   
(c)  $y = 19x + 10$   
 $= 238$   
(d)  $y = 138x + 2050$ 

