

13. What is the slope for a line that is perpendicular to the line $y = 4x + 8$? $-\frac{1}{4}$
14. What is the slope for a line that is perpendicular to the line $x = -6$? zero
15. Write the equation for a line that is perpendicular to the line $8x - 4y = 12$ and passes through the origin.
 $y = -\frac{1}{2}x$
16. Write an equation for a line that is perpendicular to the line $y = -\frac{1}{3}x$ and passes through the point $(0, -10)$
 $y = 3x - 10$
17. Determine whether each pair of lines is parallel, perpendicular, or neither.
- a $y = 2x + 6$
 $y + 1 = -2x$ _____ neither _____
- b $3y - 5x = 9$
 $y = -\frac{5}{3}x - 12$ _____ perpendicular _____
- c $x + 6 = y$
 $3y = 3x + 2$ _____ parallel _____
- d $\frac{1}{8}y + 17 = 4x$
 $4x = y + 1$ _____ neither _____
- e $x + y = 0$
 $y = x + 10$ _____ perpendicular _____
- f $2y - 8 = 5x$
 $2x - 8 = 5y$ _____ neither _____
- g $y = 6x + 16$
 $y - 6x = -4$ _____ parallel _____
- h $\frac{1}{2}x + 3 = y$
 $y = -1 - 2x$ _____ perpendicular _____

