## **Algebra I** 8-5 Equations of Lines

Write an equation in slope / intercept form of each line.

17) 
$$(0,7)(1,9)$$
  
 $y = mx+b$   
First, find *m* using  
the slope formula.  

$$M = \frac{y_2 - y_1}{x_2 - x_1} = \frac{9 - 7}{1 - 0} = \frac{2}{1} = 2$$

$$y = 2x+b$$

$$7 = 2(0)+b$$

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Then do temp work. You can pick either point to use for *x* and *y*. In this case, we chose (0,7) because the numbers are easier to work with.

Write an equation in slope / intercept form of each line.



