

Name : \_\_\_\_\_

## Direct and Inverse Variation - Equation

Sheet 3

State whether each equation represents a direct or an inverse variation.  
Find the constant of variation (k).

1)  $-x + 9y = 0$

2)  $4y - 4x = 0$

3)  $3 + 8yx = 10$

5)  $-5x + 15y = 0$

7)  $7xy = 14$

9)  $\frac{x}{3y} = 17$

10)  $1 - 29xy = -3$

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**Direct and Inverse Variation - Equation**

State whether each equation represents a direct or an inverse variation.  
Find the constant of variation (k).

1)  $-x + 9y = 0$

**Direct variation,  $k = \frac{1}{9}$** 

2)  $4y - 4x = 0$

**Direct variation,  $k = 1$** 

3)  $3 + 8yx = 10$

**Inverse var****variation,  $k = \frac{3}{5}$** 

5)  $-5x + 15y = 0$

**Direct vari****variation,  $k = 11$** 

7)  $7xy = 14$

**Inverse variation,  $k = 2$** **inverse variation,  $k = \frac{2}{9}$** 

9)  $\frac{x}{3y} = 17$

**Direct variation,  $k = \frac{1}{51}$** 

10)  $1 - 29xy = -3$

**Inverse variation,  $k = \frac{4}{29}$** 

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