

# Direct and Inverse Variation | Equation

Answer Key

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

1)  $8x - 2y = 0$

**Direct variation,  $k = 4$**

2)  $-4 + 9yx = 3$

**Inverse variation,  $k = \frac{7}{9}$**

3)  $14yx - 1 = 6$

**Inverse variation,  $k = \frac{1}{2}$**

4)  $-3x + 13y = 0$

**Direct variation,  $k = \frac{3}{13}$**

5)  $10y - 6x = 0$

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

6)  $-16 + xy = 32$

**Inverse variation,  $k = 48$**

7)  $28xy = 4$

**Inverse variation,  $k = \frac{1}{7}$**

8)  $\frac{5x}{y} = 13$

**Direct variation,  $k = \frac{5}{13}$**

9)  $y - 13x = 0$

**Direct variation,  $k = 13$**

10)  $-xy - 2 = -13$

**Inverse variation,  $k = 11$**