Name : _____

Direct and Inverse Variation - Equation

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

1) $4y - 3x = 0$

2) $xy = 5$

3) $5xy + 8 = 12$

4) $-y + 9x = 0$

5) $-10 + 15xy = 20$

6) $2 + 8xy = 4$

7) $7y - 6x = 0$

8) $-2x + 5y = 0$

9) $\frac{y}{x} = 6$

10) $-4 + 9yx = 3$

Name : _____

Answer key

Direct and Inverse Variation - Equation

Sheet 1

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

1) $4y - 3x = 0$

Direct variation, $k = \frac{3}{4}$

2) $xy = 5$

Inverse variation, k = 5

3) $5xy + 8 = 12$

Inverse variation, $k = \frac{4}{5}$

4) $-y + 9x = 0$

Direct variation, k = 9

5) $-10 + 15xy = 20$

Inverse variation, k = 2

6) $2 + 8xy = 4$

Inverse variation, $k = \frac{1}{4}$

7) $7y - 6x = 0$

Direct variation, $k = \frac{6}{7}$

8) $-2x + 5y = 0$

Direct variation, $k = \frac{2}{5}$

9) $\frac{y}{x} = 6$

Direct variation, k = 6

10) $-4 + 9yx = 3$

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