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) $6x - 7y = 0$

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

2) $xy = 20$

Inverse variation, k = 20

3) $-18 + 8xy = 4$

Inverse variation, $k = \frac{11}{4}$

4) $\frac{y}{x} = 5$

Direct variation, k = 5

5) $-9 + 11xy = 13$

Inverse variation, k = 2

6) $-15y + 3x = 0$

Direct variation, $k = \frac{1}{5}$

7) $-14x + y = 0$

Direct variation, k = 14

8) $xy - 19 = -17$

Inverse variation, k = 2

9) $12y - 4x = 0$

Direct variation, $k = \frac{1}{3}$

10) $-16 + 10xy = -2$

Inverse variation, $k = \frac{7}{5}$