

Constant of Variation | Equation

1) $-6r + s = 0$. Find the constant of variation if,

a) s varies directly with r .

b) r varies directly with s .

2) $\frac{15}{c} = 5d$. Find the constant of variation if,

a) c varies inversely with d .

b) d varies inversely with c .

3) $12g = 3h$. Find the constant of variation if,

a) g varies directly with h .

b) h varies directly with g .

4) $9ab - 10 = -4$. Find the constant of variation if,

a) b varies inversely with a .

b) a varies inversely with b .

5) $7p - q = 0$. Find the constant of variation if,

a) p varies directly with q .

b) q varies directly with p .

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Answer key

1) $-6r + s = 0$. Find the constant of variation if,

a) s varies directly with r .

$$k = 6$$

b) r varies directly with s .

$$k = \frac{1}{6}$$

2) $\frac{15}{c} = 5d$. Find the constant of variation if,

a) c varies inversely with d .

$$k = 3$$

b) d varies inversely with c .

$$k = 3$$

3) $12g = 3h$. Find the constant of variation if,

a) g varies directly with h .

$$k = \frac{1}{4}$$

b) h varies directly with g .

$$k = 4$$

4) $9ab - 10 = -4$. Find the constant of variation if,

a) b varies inversely with a .

$$k = \frac{2}{3}$$

b) a varies inversely with b .

$$k = \frac{2}{3}$$

5) $7p - q = 0$. Find the constant of variation if,

a) p varies directly with q .

$$k = \frac{1}{7}$$

b) q varies directly with p .

$$k = 7$$