

Name : _____

Constant of Variation - Equation

L2S2

1) $16 = \frac{2m}{n}$. Find the constant of variation if,

a) n varies directly with m . _____

b) m varies directly with n . _____

2) $\frac{10}{fg} = h^2$. Find the constant of variation if,

a) g varies in _____

b) f varies inv _____

3) $8pq - 3r = 0$. Find the constant of variation if,

a) q varies di _____

b) r varies joi _____

4) $\frac{u^3}{2} = vw$. Find the constant of variation if,

a) v varies di _____

b) w varies inversely with v and directly with u^3 . _____

5) $32z = \frac{6x}{y}$. Find the constant of variation if,

a) z varies directly with x and inversely with y . _____

b) x varies jointly with y and z . _____

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Constant of Variation - Equation

1) $16 = \frac{2m}{n}$. Find the constant of variation if,

a) n varies directly with m .

$$k = \frac{1}{8}$$

b) m varies directly with n .

$$k = 8$$

2) $\frac{10}{fg} = h^2$. Find the constant of variation if,

a) g varies inversely with h .

$$k = 10$$

b) f varies inversely with h .

$$k = 10$$

3) $8pq - 3r = 0$. Find the constant of variation if,

a) q varies directly with r .

$$k = \frac{3}{8}$$

b) r varies jointly with p and q .

$$k = \frac{8}{3}$$

4) $\frac{u^3}{2} = vw$. Find the constant of variation if,

a) v varies directly with w .

$$k = \frac{1}{2}$$

b) w varies inversely with v and directly with u^3 .

$$k = \frac{1}{2}$$

5) $32z = \frac{6x}{y}$. Find the constant of variation if,

a) z varies directly with x and inversely with y .

$$k = \frac{3}{16}$$

b) x varies jointly with y and z .

$$k = \frac{16}{3}$$

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