

Name : _____

Constant of Variation - Equation

L2S1

1) $\frac{2u^2}{v} = 3x$. Find the constant of variation if,

a) v varies directly with u^2 and inversely with x . _____

b) x varies inversely with v and directly with u^2 . _____

2) $r = \frac{11p}{q}$. Find the constant of variation if,

a) p varies jointly _____

b) r varies directly _____

3) $\frac{\sqrt{f}}{2g} = 3h$. Find the constant of variation if,

a) h varies directly _____

b) f varies jointly _____

4) $-26m + 8n = 0$.

a) n varies directly _____

b) m varies directly with n . _____

5) $\frac{21}{x^3} = 3ts$. Find the constant of variation if,

a) s varies inversely with t and x^3 . _____

b) t varies inversely with x^3 and s . _____

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Constant of Variation - Equation

L2S1

1) $\frac{2u^2}{v} = 3x$. Find the constant of variation if,

a) v varies directly with u^2 and inversely with x .

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

b) x varies inversely with v and directly with u^2 .

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

2) $r = \frac{11p}{q}$. Find the constant of variation if,

a) p varies jointly with q and r .

$$k = \frac{1}{11}$$

b) r varies directly with p .

$$k = 11$$

3) $\frac{\sqrt{f}}{2g} = 3h$. Find the constant of variation if,

a) h varies directly with g and f .

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

b) f varies jointly with g and h .

$$k = 36$$

4) $-26m + 8n = 0$.

a) n varies directly with m .

$$k = \frac{13}{4}$$

b) m varies directly with n .

$$k = \frac{4}{13}$$

5) $\frac{21}{x^3} = 3ts$. Find the constant of variation if,

a) s varies inversely with t and x^3 .

$$k = 7$$

b) t varies inversely with x^3 and s .

$$k = 7$$

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