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 jo _____

b) r varies dir _____

3) $\frac{\sqrt{f}}{2g} = 3h$. Find tl

a) h varies di _____

b) f varies joi _____

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

a) n varies di _____

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. _____

Name : _____

Answer key

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

b) r varies dir **$k = 11$**

3) $\frac{\sqrt{f}}{2g} = 3h$. Find tl

a) h varies di **$k = \frac{1}{6}$**

b) f varies joi **$k = 36$**

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

a) n varies di **$k = \frac{13}{4}$**

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. **$k = 7$**