

Name : \_\_\_\_\_

## Write the Equation

L2S5

- 1) The variable  $p$  varies jointly with  $r$  and square of  $s$ . The value of  $p = 36$  when  $r = 0.5$  and  $s = 0.8$ . Write an equation that relates  $p$ ,  $r$  and  $s$ .

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- 2) The variable  $b$  varies inversely with  $x$ . The value of  $b = 33$  when  $x = 3$ . Write an equation that relates  $b$  and  $x$ .

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- 3) The variable  $m$  varies directly with  $n$  and  $t$ . The value of  $m = 9$  when  $n = \frac{5}{7}$ ,  $q = 2$  and  $t = 3$ . Write an equation that relates  $m$ ,  $n$ ,  $q$  and  $t$ .

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- 4) The variable  $u$  varies directly with  $v$  and inversely with  $w$ . The value of  $u = 495$  when  $v = 5$ ,  $w = -3$ . Write an equation that relates  $u$ ,  $v$  and  $w$ .

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- 5) The variable  $c$  varies directly with cube of  $d$  and inversely with  $f$ . The value of  $c = 27$  when  $d = 3$  and  $f = 6$ . Write an equation that relates  $c$ ,  $d$  and  $f$ .

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