

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

## Write the Equation

L2S1

- 1) The variable  $d$  varies jointly with  $f$  and  $h$ . The value of  $d = 90$  when  $f = 2$  and  $h = 9$ . Write an equation that relates  $d$ ,  $f$  and  $h$ .

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- 2) The variable  $p$  varies directly with  $q$  and inversely with  $r$ . The value of  $p = -9.6$  when  $q = 0.3$  and  $r = 0.2$ . Write an equation that relates  $p$ ,  $q$  and  $r$ .

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- 3) The variable  $y$  varies directly with  $x$  and inversely with  $z$ . The value of  $y = 6$  when  $x = 2$  and  $z = 3$ . Write an equation that relates  $y$  and  $z$ .

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- 4) The variable  $u$  varies directly with  $v$  and inversely with  $w$ . The value of  $u = 12$  when  $v = 1$ . Write an equation that relates  $u$ ,  $v$  and  $w$ .

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- 5) The variable  $a$  varies jointly with  $b$ ,  $c$  and  $d$ . The value of  $a = 14$  when  $b = \frac{3}{5}$ ,  $c = \frac{5}{7}$  and  $d = \frac{7}{9}$ . Write an equation that relates  $a$ ,  $b$ ,  $c$  and  $d$ .

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