

Business PreCalculus MATH 1643 Section 004, Spring 2014
Worksheet 22

- 1-** Assume that y varies directly as the cube of x , and $y = 270$ when $x = 3$. Find x when $y = 80$.

- 2-** Assume that y varies inversely as the cube root of x , and $y = 10$ when $x = 2$. Find x when $y = 40$.

- 3-** Assume that m varies directly as q and inversely as p , and $m = \frac{1}{2}$ when $p = 26$ and $q = 13$. Find m when $p = 14$ and $q = 7$.

- 4-** Assume that a varies jointly as b and the square root of c , and $a = 9$ when $c = 81$ and $b = 13$. Find a when $b = 5$ and $c = 9$.