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VARIATIONS

Exercise 5.2

a) Given that *p* varies directly as the cube of *q*, find the law when p = 2 and q = 4. Hence, find the value of *p* when q = 6.

e) Give two real life examples 10 show direct proportionality.

i)

ii)

c) Given that *a* varies directly as the square root of *b*, find the law connecting them when a = 27 and b = 9. Hence, find the value of *a* when b = 4.

d) Given that y varies directly as the cube root of x, find the law connecting them when y = 8 and x = 32. Hence, find the value *of* y when x = 75.

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e) Given that x and y satisfy the relationship $y = kx^2$, find the value of k and point <u>out the incorrect</u> value(s) of y in the table.

у	1	2	3	5	6
Х	3	12	21	75	180