

VARIATIONS

Exercise 5.2-part3

- f) Given that y varies directly as the square root of x , find the law connecting them when $y = 10$ and $x = 1$. Hence, find the value of y when $x = 4$.

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- g) Given that $P \propto Q^2$, find the law connecting them when $Q = 6$ and $P = 27$. Hence, find P when $Q = 10$.

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- h) Given that $M \propto R^2$, find the law connecting them when $M = 40$ and $R = 4$. Hence, find M when $R = 10$ and also find R when $M = 2.56$.

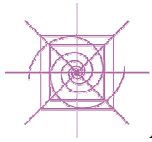
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- i) Given that $\sqrt{y} \propto z$, find the law connecting them when $y = 4$ and $z = 3$. Hence, find the value of y when $z = 15$ and also the value of z when $y = 6$.

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- j) If $y \propto x$, and $y = 10$ when $x = 2$, find x when $y = 35$.

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k) $A \propto M$, and $A = 8$ when $M = 20$. Find A when $M = 15$ and M when $A = 7$.

i) The table below is defined by the law $y = pr^2$, where p is a constant. Find the incorrect value(s) of y and write down the correct one.
