VARIATIONS

Exercise 5.2-part2

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 $P \, \alpha \, Q^2$, find the law connecting them when $Q = 6$ and $P = 27$. Hence, find P when $Q = 10$.

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

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

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j) If $y \, \alpha \, x$, and $y = 10$ when $x = Y2$, find x when $y = 35$.

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