

- ① Given that: $x^2: (5x + 2) = 1:3$ find the possible values of x .

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Calculations and Answer

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- ② (a) Express $\sqrt{5} + \sqrt{20}$ in the form $a\sqrt{5}$ where a is an integer.

- (b) Express $\left(\frac{1}{\sqrt{5}}\right)^5$ in the form $\frac{\sqrt{b}}{c}$ where b and c are integer.

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Calculations and Answer

- ③ The functions f and h are such that $f(x) = 2x + 1$ and $h(x) = x^2 - 3$

- (a) Find $f^{-1}(x)$

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Given that $fh(x) = 3hf(x)$

- (b) Show that $10x^2 + 12x - 1 = 0$

Calculations and Answer

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