## **Question 5**



## Verify, with this value of *x*, that the lengths of the sides of the triangle above form a (ii) pythagorean triple.

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(b) (i) Show that f(x) = 3x - 2, where  $x \in \mathbb{R}$ , is an injective function.

(ii) Given that f(x) = 3x - 2, where  $x \in \mathbb{R}$ , find a formula for  $f^{-1}$ , the inverse function of f. Show your work.

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