



(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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