**Inverse Functions**

Find the inverse function, $f^{-1}(x)$, of the following functions:

(a) $f\left(x\right)=3x-1$

(b) $f(x)=2x+3$

(c) $f\left(x\right)=1-2x$

(d) $ f(x)=x^{2}+5$

(e) $f(x)=6(4x–1)$

(f) $ f(x) =4-x$

(g) $f\left(x\right)=3x^{2}-2$

(h) $f(x)=2(1-x)$

Find the inverse function, $f^{-1}(x)$, of the following functions:

(i) $f(x)=\frac{2x}{x+1}$

(j) $f(x)=\frac{x+1}{x-2}$

The function is such that $f(x)=7x-3$

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

(b) Solve the equation $f^{-1}\left(x\right)=f(x)$

The function is such that $f(x)=\frac{8}{x+2}$

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The function is such that

 $f\left(x\right)=\frac{1}{x+4} $, $x\ne -4$

Evaluate $f^{-1}(-3)$

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