

$$1.(a) f(x) = x^3 - x^2 - 14x + 24 \quad \text{Factor } (x + 4)$$

$$(i) (x + 4) \sqrt{x^3 - x^2 - 14x + 24}$$

Through Synthetic Division

$$\begin{array}{r} -4 \sqrt{1 \quad -1 \quad -14 \quad +24} \\ \quad 4 \quad -4 \quad 20 \quad -24 \\ \hline 1 \quad -5 \quad 6 \quad 0 \end{array}$$

Since the Remainder is Zero we can conclude that $(x + 4)$ is a factor of $f(x)$.

(ii) The other linear factors can be found from the quadratic expression.

$$(x + 4)(x^2 - 5x + 6)$$

Factorize: $(x^2 - 5x + 6)$

$$(x^2 - 2x)(-3x + 6)$$

$$x(x - 2) - 3(x - 2)$$

$$(x - 2)(x - 3)$$

Therefore there are 3 factors.

$$(x + 4)(x - 2)(x - 3)$$

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

(i) Inverse of $f^{-1}(x)$

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

$$y = \frac{2x - 1}{x + 2}$$

$$x = \frac{2y - 1}{y + 2}$$

$$x(y + 2) = 2y - 1$$

$$xy + 2x = 2y - 1$$

$$xy - 2y = -1 - 2x$$

$$y(x - 2) = -1 - 2x$$

$$y = \frac{-1 - 2x}{x - 2}$$

$$f^{-1} = \frac{-1 - 2x}{x - 2}$$

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

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

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

$$fg(x) = \frac{2x + 1}{x + 3}$$

(c) Given $5^{3x-2} = 7^{x+2}$ Show that

$$x = \frac{2(\log 5 + \log 7)}{(\log 125 - \log 7)}$$

$$5^{3x-2} = 7^{x+2}$$

$$(3x - 2)\log 5 = (x + 2)\log 7$$

$$3x\log 5 - 2\log 5 = x\log 7 + 2\log 7$$

$$3x\log 5 - x\log 7 = 2\log 7 + 2\log 5$$

$$x(3\log 5 - \log 7) = 2(\log 7 + \log 5)$$

$$x = \frac{2(\log 7 + \log 5)}{(3\log 5 - \log 7)}$$

$$x = \frac{2(\log 5 + \log 7)}{(\log 125 - \log 7)}$$

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