1.(a) $f(x) = x^3 - x^2 - 14x + 24$ Factor $(x + 4)$

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

Through Synthetic Division

$$-4 \sqrt{\begin{array}{cccc} 1 & -1 & -14 & +24 \end{array}}$$
$$\begin{array}{cccc} \downarrow & -4 & 20 & -24 \\ \hline 1 & -5 & 6 & 0 \end{array}$$

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

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

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

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

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

(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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Marquis Who's Who,[Anonymus AC01783920]

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Proceedings of ELM-2015 Volume 1 Jiuwen Cao,Kezhi Mao,Jonathan Wu,Amaury Lendasse,2015-12-31 This book contains some selected papers from the International Conference on Extreme Learning Machine 2015 which was held in Hangzhou China December 15 17 2015 This conference brought together researchers and engineers to share and exchange R D experience on both theoretical studies and practical applications of the Extreme Learning Machine ELM technique and brain learning This book covers theories algorithms ad applications of ELM It gives readers a glance of the most recent advances of ELM **18th IMT-GT International Conference on Mathematics, Statistics and their Applications** ,2024-04-30 The 18th ICMSA 2023 emphasized the critical role of statistical science in advancing the Sustainable Development Goals SDGs The conference highlighted how data science and statistical methods are essential for solving real world problems and achieving sustainable development The event aimed to enhance the research output of Universitas Syiah Kuala foster a

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