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**

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

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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and a diluent input the dosage which is the mass of the dry ingredient in the case of medications they come in vials and you can find the dosage on the label input the required or prescribed amount of the diluent which in case of

level 2 3 dosage calculation practice problems studocu - Sep 09 2022

web reconstitution dosage calculation practice problems 1 order 0 gram augmentin po q 8 hours how many ml will you give per dose order cefizox 0 g im q12h available cefizox 1 g directions for mixing add 3 ml sterile water or ns for injection to make 3 ml 270 mg per ml how many ml will you give per dose