Questions From Homework

Synthetic Substitution

Find a value of x that makes it equal 0

Factor using synthetic substitution

$$x^{3} - 7x^{2} - 4x + 28$$

 $(3)^{3} - 7(3)^{3} - 4(3) + 38$
 $8 - 38 - 8 + 38$

(x-value)

(Coefficients of the polynomial) Bring down the first

coefficient

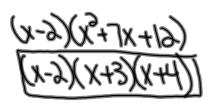
- Multiply the first coefficient by the x-value and place under the second coefficient. ADD.
- Repeat the steps. The coefficients of the other factor are in the bottom row.

Simple Trinomial
$$\frac{\partial}{\partial} \times \frac{-7}{-2} = -14$$

$$x^3 + 5x^2 - 2x - 24$$
 Find a value of x that makes it equal 0 $(3)^3 + 5(3)^3 - 3(3) - 3(4)$ $8 + 30 - 4 - 34$

(x-value)

(Coefficients of the polynomial)



Homework

(a)
$$4 = -3$$

(b) $4 = -3$
(c) $4 = -3$
(d) $4 = -3$
 $6 = 3$
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$$x^{3} + 5x^{2} - 2x - 24$$

$$(3)^{3} + 5(3)^{3} - 3(3) - 34$$

$$8 + 30 - 4 - 34$$

$$= -(x^{3} + 5x^{3} - 3x - 34)$$

$$-(x^{3} - 3x)$$

$$-(x^{3} - 3x)$$

$$-(x^{3} - 14x)$$

$$-(x^{3} - 14x)$$

$$-(x^{3} - 14x)$$

