

The Remainder Theorem

Date _____ Period _____

Evaluate each function at the given value.

1) $f(x) = -x^3 + 6x - 7$ at $x = 2$

$$f(2) = -(2)^3 + 12 - 7$$

$$= -8 + 12 - 7$$

$$= 4 - 7$$

$$= \boxed{-3}$$

3) $f(a) = a^3 + 3a^2 + 2a + 8$ at $a = -3$

$$-3^3 + 3(-3)^2 - 6 + 8$$

$$-27 + 3(9) - 6 + 8$$

$$-27 + 27 - 6 + 8$$

$$-6 + 8 = \boxed{2}$$

5) $f(a) = a^4 + 3a^3 - 17a^2 + 2a - 7$ at $a = 3$

$$81 + 3(27) - 17(9) + 6 - 7$$

$$81 + 81 - 153 - 1$$

$$162 - 154 = \boxed{8}$$

2) $f(x) = x^3 + x^2 - 5x - 6$ at $x = 2$

$$2^3 + 4 - 10 - 6$$

$$8 + 4 - 10 - 6$$

$$12 - 10 - 6$$

$$2 - 6 = \boxed{-4}$$

4) $f(a) = a^3 + 5a^2 + 10a + 12$ at $a = -2$

$$-8 + 5(4) - 20 + 12$$

$$-8 + 20 - 20 + 12$$

$$-8 + 12 = \boxed{4}$$

6) $f(x) = x^5 - 47x^3 - 16x^2 + 8x + 52$ at $x = 7$

$$16807 - 47(343) - 16(49) + 56 + 52$$

$$16807 - 16121 - 784 + 108$$

$$-98 + 108 = \boxed{10}$$

$$y = x^2 + 5x + 6 \\ = (x+3)(x+2) \\ (x-1)(x-2)(x-4)(x-5)$$

State if the given binomial is a factor of the given polynomial.

$$x^2 - 2x + 1 \text{ is a factor of } x^3 - 3x^2 + 3x - 1$$

$$(x^2 - 2x + 1)(x - 1) = x^3 - 3x^2 + 3x - 1$$

$$x^3 - 2x^2 + x - x^2 + 2x - 1 + x - 1$$

$$x^3 - 3x^2 + 3x - 1$$

$$x^3 - 3x^2 + 3x - 1$$

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$$x^2 - 2x + 1 \text{ is a factor of } x^3 - 3x^2 + 3x - 1$$

$$(x^2 - 2x + 1)(x - 1) = x^3 - 3x^2 + 3x - 1$$

$$x^3 - 2x^2 + x - x^2 + 2x - 1 + x - 1$$

$$x^3 - 3x^2 + 3x - 1$$

$$x^3 - 3x^2 + 3x - 1$$

$$x^3 - 3x^2 + 3x - 1$$

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