

Name: _____

Date: _____

#8

Check for Understanding- Concept 7-9

Students should be able to add, subtract, and multiply polynomials.

1. $(2x^2 - 3x + 11) + (-4x^2 + 6x - 10)$

2. $(12x^3 + 3x^2 - x + 2) - (5x^2 - 10x + 8)$

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

Check for Understanding- Concept 7-9

Students should be able to add, subtract, and multiply polynomials.

13 pts

3pt 1. $(2x^2 - 3x + 11) + (-4x^2 + 6x - 10)$

$$2x^2 - 3x + 11 - 4x^2 + 6x - 10$$

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

5pt 2. $(12x^3 + 3x^2 - x + 2) - (5x^2 - 10x + 8)$

$$12x^3 + 3x^2 - x + 2 - 5x^2 + 10x - 8$$

$$12x^3 - 2x^2 + 9x - 6$$

1 pt for distributing negative correctly

5pt 3. $(x^3 - 3x^2)(2x^2 + 3x - 1)$

	$2x^2$	$3x$	-1
x^3	$2x^5$	$3x^4$	$-x^3$
$-3x^2$	$-6x^4$	$-9x^3$	$+3x^2$

$$2x^5 - 3x^4 - 10x^3 + 3x^2$$

1 pt for correct box