

Name: Key

UNIT 7 – PRE-ASSESSMENT

1) Write the equation in standard form: $5x + 4x^2 + 10 + 3x^4$

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

2) Classify by degree and number of terms: $5x + 4x^2 + 10 + 3x^4$

polynomial quartic

3) Add: $(2x^2 - 7x) + (2x^2 - 5x + 1)$

$$4x^2 - 12x + 1$$

4) Subtract: $(2x + 3x^2 - 3) - (x^2 + 5x - 2)$

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

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

5) Multiply: $(4x - 3)(2x + 7)$

$$8x^2 - 6x + 28x - 21$$

$$8x^2 + 22x - 21$$

6) Multiply: $(2x - 1)(2x + 1)$

$$4x^2 - 1$$

7) Factor out the GCF $\frac{4x^2}{4x^2} - \frac{24x^4}{4x^2}$

$$4x^2(1 - 6x^2)$$

8) Multiply: $(3x - 2)^2$

$$(3x - 2)(3x - 2)$$

$$9x^2 - 12x + 4$$