

U2L5 Multiplying and Polynomials

January-12-15 10:14 AM

A) Review

$$1) (4x^2 + 3x) + (1x^2 - 8) = 5x^2 + 3x - 8 \checkmark$$

$$2) (4A + 2B) + (-3A + 4B) = 1A + 6B \checkmark$$

3) What is the degree?

$$3A^2B^2 + 8 + 4ab^4 - 8a^3 = 5^{\text{th}} \text{ degree} \checkmark$$

(4th)
(0)
(5th)
(3rd)

B) Mult & Divide Polynomials by a CONSTANT

$$\text{EX 1) } 3(2x) = 6x \checkmark$$

$$4) \frac{4m^2 - 8}{4} = 1m^2 - 2 \checkmark$$

$$2) 3(-2m + 4) = -6m + 12 \checkmark$$

$$3) -2(-n^2 + 2n - 1) = +2n^2 - 4n + 2 \checkmark$$

$$5) \frac{-3m^2 + 15mn - 21n^2}{-3} = 1m^2 - 5mn + 7n^2 \checkmark$$

Reminder:

- $(-) \cdot (-) = (+)$
- $(+) \cdot (+) = (+)$
- $(-) \cdot (+) = (-)$

C) Multiply & Divide Polynomials by a MONOMIAL

$$\text{EX 1) } 2A(5A) = 10A^2 \checkmark$$

$$2) -2x(-3x + 4) = +6x^2 - 8x \checkmark$$

★ hint: $A^1 \cdot A^1 = A^{1+1} = A^2$
 $A^2 \cdot A^3 = A^{2+3} = A^5$ ★

$$3) \frac{-10m^2}{2m} = -5m^1 \checkmark \quad (=1)$$

$$4) \frac{(30K^2 - 18K)}{-6K} = -5K + 3 \checkmark \text{ or } -5K + 3 \checkmark$$

★ hint: $\frac{m^2}{m^1} = m^{2-1} = m^1$ ★

Assignment: U2L5 wkst # 9A, 10A, 12, 16, 20, 21, 22, (25)