

BE-1A

TUESDAY 4-5-11

① DEFINE (A) MONOMIAL

(B) POLYNOMIAL

② FIND THE DEGREE OF EACH POLYNOMIAL:

(A) $3xy + 4/x + 5x^2 + 6$

(B) $7x + 3xyz + 2$

③ Simplify: $\left(\frac{4x^2y^{-3}}{3x^{-1}y^4}\right)^2 \left(\frac{2xyz}{44x^5y^{11}}\right)^0$

• Homework review Pg. 434 # 1-10

Adding AND Subtracting Polynomials

$$(3x^2 - 4x + 8) + (2x - 7x^2 - 5)$$

TRINOMIAL

TRINOMIAL

$$+1 \overbrace{(3x^2 - 4x + 8)} + +1 \overbrace{(2x - 7x^2 - 5)}$$

↑
GET OUT
OF JAIL
FREE

↑
GET OUT
OF JAIL
FREE

$$3x^2 - 4x + 8 + 2x - 7x^2 - 5$$

Now combine "like" terms

$$3x^2 - 7x^2 - 4x + 2x + 8 - 5$$

$$\boxed{-4x^2 - 2x + 3}$$

THIS is Example 1, Pg 439

Ch 8-5 Adding and Subtracting Polynomials

$$\textcircled{\text{EX}} (4p^2 + 5p) + (-2p^2 + p)$$

$$\begin{array}{r} 4p^2 + 5p \\ \hline \end{array} \quad \begin{array}{r} -2p^2 + p \\ \hline \end{array}$$

$$\boxed{2p^2 + 6p}$$

$$\textcircled{\text{EX}} (5y^2 - 3y + 8) + (4y^2 - 9)$$

$$\begin{array}{r} 5y^2 - 3y + 8 \\ \hline \end{array} \quad \begin{array}{r} + 4y^2 - 9 \\ \hline \end{array}$$

$$\boxed{9y^2 - 3y - 1}$$

$$\textcircled{8} \quad (3x^2 + 13x^3 + 5x) - (7x + 4x^3)$$

\uparrow
NOT A GET OUT OF ()
 FAIL FREE

$$3x^2 + 13x^3 + 5x + -1(7x + 4x^3)$$

CHANGE ALL SIGNS

$$\underline{3x^2 + 13x^3 + 5x} - 7x - 4x^3$$

$$\boxed{9x^3 + 3x^2 - 2x}$$

This was Ex. 2 Pg. 440 Except X vs. N

Summary

$$(x - y) = x - y \quad \text{GOIF}$$

$$-(x - y) = -x + y \quad \text{CAS}$$

Homework:

- Read Ch 3-5
- Pg 441 #12-18