Algebra I Weds 2·20·13 CLASS NOTES

Homework Review:

Pg 427 #1-23 odd

① $(2x^2)(7x^4) = \boxed{14x^6}$

③ $(6rs^2)(5^3t^2)(\frac{1}{2}r^4t^3)$

$\boxed{3r^5s^5t^5}$

⑤ $(-3x^4y^2)(-7x^3y)$

$\boxed{21x^7y^3}$

⑦ $4(x^2+2x+1)$

$\boxed{4x^2+8x+4}$

⑨ $2a^3b(3a^2b+ab^2)$

$\boxed{6a^5b^2+2a^4b^3}$

binomial
degree = 7

deg 7 deg 7

(11) $5x^2y(2xy^3 - y)$

$\boxed{10x^3y^4 - 5x^2y^2}$ binomial, degree = 7

(13) $(x+1)(x-2)$

$x^2 - 2x + x - 2$

$\boxed{x^2 - x - 2}$ quadratic, trinomial

(15) $(x-2)^2 = (x-2)(x-2)$

$x^2 - 2x - 2x + 4$

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

(17) $(4a^3 - 2b)(a - 3b^2)$

$4a^4 - 12a^3b^2 - 2ab + 6b^3$

$\boxed{4a^4 - 12a^3b^2 - 2ab + 6b^3}$

$\boxed{-12a^3b^2 + 4a^4 + 6b^3 - 2ab}$ STD FORM

(19) $(x+5)(x^2-2x+3)$

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

$+5x^2 - 10x + 15$

$\boxed{x^3 + 3x^2 - 7x + 15}$ cubic, 4-term polynomial.

(21) $(2x-4)(-3x^3+2x-5)$

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

$-8x + 12x^3 + 20$

$-6x^4 + 4x^2 - 18x + 12x^3 + 20$

$\boxed{-6x^4 + 12x^3 + 4x^2 - 18x + 20}$

quartic, 5-term polynomial

(22) $(-4x+6)(2x^3-x^2+1)$

$-8x^4+4x^3-4x$

$+12x^3 \quad -6x^2+6$

$-8x^4+16x^3-4x-6x^2+6$

$\boxed{-8x^4+16x^3-6x^2-4x+6}$

(23) $(x-5)(x^2+x+1)$

x^3+x^2+x

$-5x^2-5x-5$

$\boxed{x^3-4x^2-4x-5}$

(Ex) $(2x+5)(3x-6)$ POLYNOMIAL MULTIPLICATION

$6x^2 - 12x + 15x - 30$

$\boxed{6x^2+3x-30}$

(Ex) $(2x-7)+(4x-6)$ ADD/SUB

$2x-7+4x-6$

$\boxed{6x-13}$