February 4th

Due Today: VN+ HW7.1
Due Next Class: HW 7.2

Unit 7: Polynomials

Lesson 7.2: Multiplying and Dividing Polys

Check your HW:

1) $4r^3 + 3r^2 - 2r$ 2) $3b^3 + 2b^2 + 4$ 3) $-2a^2 + a$ 4) $n^3 - 2n + 1$
5) $5x^4 + 12x^3 + 2x^2 - 1$ 6) $3p^3 + p^2 - 5p$ 7) $9k^5 + 15k^4 + k^3 + 6$
8) $2p^5 - 7p^4 - 9p^2 + 3p$ 9) quadratic trinomial 10) 5 term sextic
11) quintic monomial 12) cubic binomial 13) $-10n^2 - 4n - 1$
14) $-x^6 - 5x^4 - x^3 - 9x^2 - 7x + 2$ 15) $5v^6 + 8v^4 + 6v^3 - 9v^2 - 6v + 9$
16) $-3n^3 - 10n^2 - 1$

HW Review

Feb 13-6:29 AM

DEGREE	NAME
0	Constant
1	Linear
2	quadratic
3	Cubic
4	Quartic
5	Quantic
6	Sextic
7	Septic
8	Octic
9	Nonic
10	Decic
12	Dodeci

# of TERMS	NAME
1	Monomial
2	Binomial
3	Trinomial
4 or More	n term Polynomial

Feb 3-11:13 AM

MULTIPLYING POLYS

Monomial * Monomial = just exponent multiplication

$(5a^2) * (-2a^5)$

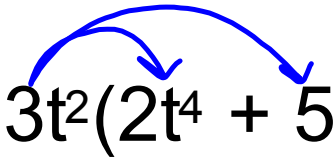
$-10a^7$

Jan 29-1:18 PM

MULTIPLYING POLYS

Monomial * Binomial = distribute!

Tri/4/5/6



$6t^6 + 15t^2$

MULTIPLYING POLYS

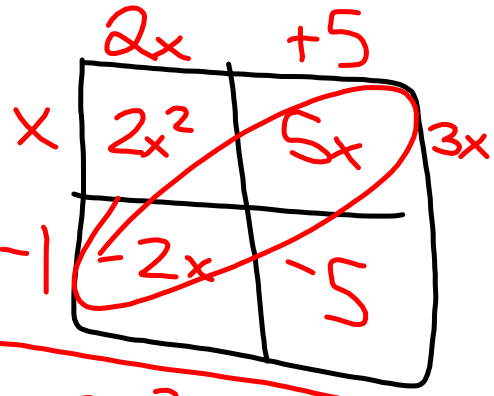
Binomial * Binomial = double distribute / 2x2 box method

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

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

$2x^2 + 3x - 5$

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



$2x^2 + 3x - 5$

Bi x Bi

$(x+3)(2x-5) \neq 2x^2-15$

$(x+3)^2 \neq x^2+9$

$=(x+3)(x+3)$

Feb 4-1:33 PM

MULTIPLYING POLYS

Binomial * Trinomial

=double- triple distribute
or 2x3 box method

$(a + 2)(a^2 + 3a - 4)$

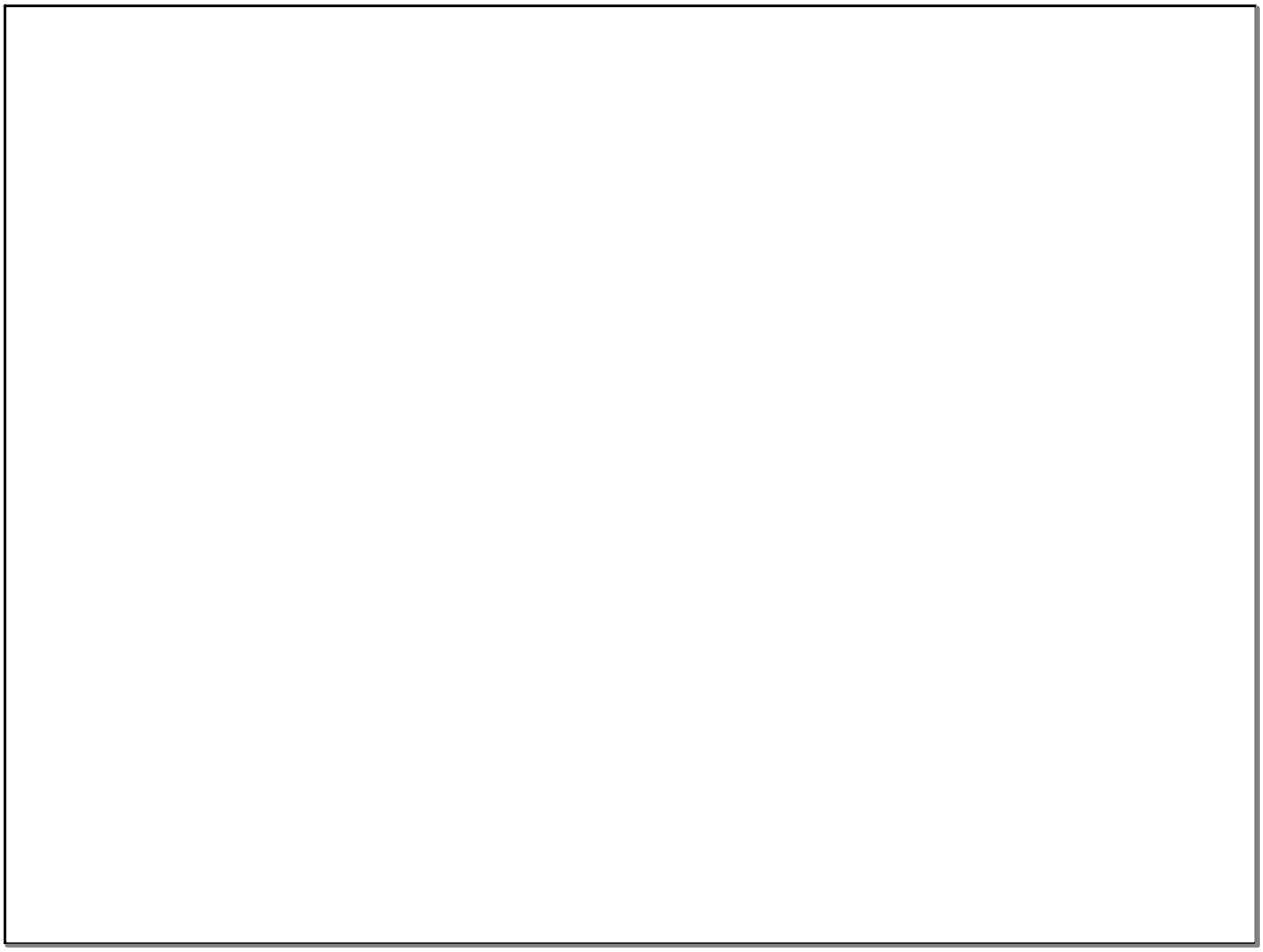
$a^3 + 3a^2 - 4a + 2a^2 + 6a - 8$

$a^3 + 5a^2 + 2a - 8$

$(a + 2)(a^2 + 3a - 4)$

	a	$+2$	
a^2	a^3	$2a^2$	$5a^2$
$3a$	$3a^2$	$6a$	$2a$
-4	$-4a$	-8	

$a^3 + 5a^2 + 2a - 8$



Feb 4-12:43 PM

DIVIDING POLYS

Polynomial ÷ monomial =Divide EVERY term of the POLY by the monomial!

$$(25k^9 - 40k^5 + 20k^2) \div 5k^2$$

$$\frac{25k^9}{5k^2} \quad \frac{-40k^5}{5k^2} \quad \frac{+20k^2}{5k^2}$$

$$5k^7 - 8k^3 + 4$$

DIVIDING POLYS

$$\frac{24t^5 - 12t^2 + 10t}{6t}$$

$4t^4 - 2t + \frac{5}{3}$

$$\frac{15p^5 + 3p^2 + 6}{3p^3}$$

$\frac{3p^2}{3p^3} = \frac{\cancel{p}\cancel{p}}{\cancel{p}\cancel{p}p} = \frac{1}{p}$

$5p^2 + \frac{1}{p} + \frac{2}{p^3}$

$5p^2 + p^{-1} + 2p^{-3}$

Practice:

1) $3n(8n^2 - 3n - 7)$

2) $(7x + 3)(2x - 8)$

3) $(r + 6)(6r^2 + 2r + 5)$

4) $(6n^5 + 30n^4 + 18n^3) \div 6n^2$

5) $(45x^3 + 9x^2 + 27x) \div 9x^2$

6) $(16n^5 + 32n^4 + 32n^3) \div 8n^3$

7) $(6m - 6)(6m + 6)$

8) $(7x + 1)^2$

9) $3x(7x^2 - x - 8)$

10) *** $(x^2 - 8x + 3)(8x^2 + x + 4)$

Jan 14-11:58 AM

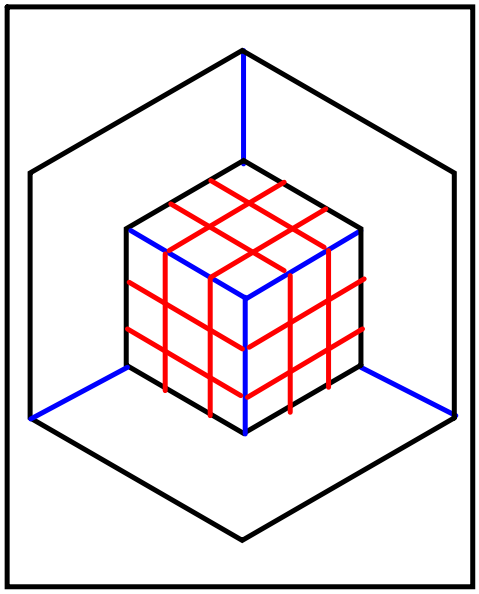
Exit Ticket

Feb 4-9:40 AM

Unit 7: Polynomials

Lesson #	Name	Recap	HW
7.1	Adding and subtracting Polynomials		VN 7.1 HW 7.1
7.2	Multiplying and Dividing Polys		HW 7.2
7.3			

Aug 8-7:55 PM



Feb 4-11:40 AM

Attachments

- Projectile Motion - Wile E Coyote.flv
- Superman, get to the chopper!.mp4