

March 30, 2015  
 \* Exam #2 - Tuesday  
 Cumulative!!

Mar 30-9:06 AM

5.2 #20) Subtract  $(2x+1)$  from the sum of  $(x-1)$  &  $(5x+7)$

10 from sum of 8 + 9  
 $(8+9)-10$

$$\left[ \underbrace{(x-1) + (5x+7)}_{\text{sum}} \right] - (2x+1)$$

$x-1 + 5x+7 - 2x-1$

$4x + 5$

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#16)

$$1(3a^3b - 4ab^3) + 1(4a^3b + 2ab^3 - 7)$$

$3a^3b - 4ab^3 + 4a^3b + 2ab^3 - 7$

$7a^3b - 2ab^3 - 7$

Degree: 3

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Exponents & Multiplication of Polynomials

5.1 \* addition 5.2

5.3: Multiplication of Polynomials

$5 \cdot x^2 \cdot 3 \cdot x^3$

multiplication

$= 5 \cdot x^2 \cdot 3 \cdot x^3$

$= 5 \cdot 3 \cdot x^2 \cdot x^3$  Com/assoc. Tools

$= 15 \cdot x^5$

$= 15x^5$

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5.3 #4)  $(7x)(-5x^2)(x^1)$

meaning of Exponents

$-35x^{10}$  Product Rule

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$-3y^4(2y^5 - 8y^{10} + 3)$

$(-3y^4)(2y^5) - (-3y^4)(-8y^{10}) + (-3y^4)(3)$

$-6y^9 - 24y^{14} - 9y^4$

$-24y^{14} - 6y^9 - 9y^4$

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#7)

$$4ab^2(3a^3 - 9a^2b - 10b^3)$$

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