

October 28, 2015
Exam #2 → 70/100

- * Operations on Polynomials
- * Use of Laws of Exponents
- * Factoring
- * Simplifying Fractions
- * Solving "Symbol" equations and stating "Tools"
- * Relations & Functions
- * Evaluating equations by substituting a value for a variable

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Factoring $a > 1$ or $a \neq 1$

#1) $3p^2 - 2p - 5$ $ac = (3)(-5) = -15$
 $b = -2$

-	+
5	3

$3p^2 - 5p + 3p - 5$
 $p(3p-5) + 1(3p-5)$
 $(3p-5)(p+1)$

$3p^2 + 3p - 5p - 5$
 $3p^2 - 2p - 5$ ✓

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$(-8x^{-3}y^4z^{-2})(4x^{-6}y^8z^6)$

$-32x^{-14}y^{12}z^4$

$\frac{32y^{12}}{x^{14}}$

$y^{12}z^4 = 1$

$z^1 = 2$
 $z^0 = 1$

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$(5x^{-4}y^3)^{-3} = \frac{x^2}{5x^{-2}y}$

$\frac{x^2}{5y(5x^{-4}y^3)^3} = \frac{x^2}{5y(5^3 \cdot x^{-12} \cdot y^9)}$

$\frac{x^2}{5 \cdot y \cdot 125 \cdot x^{-12} \cdot y^9} = \frac{x^{14}}{625y^{10}}$

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$\left(\frac{a^{-3}b^{12}}{c^{-2}}\right)^{-4}$

$\frac{a^{12}b^{-48}}{c^8} = \frac{a^{12}}{c^8 b^{48}}$

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