

Name: _____

Date: _____

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ALGEBRA 2: FINAL EXAM REVIEW 2012-2013 1ST SEMESTER

1. Simplify the expression:

$$= (-2x - 3x^2 + 7) + (-5x^2 + 7 + 3x)$$

$$= \frac{8x - 56x^2}{8x}$$

$$= \frac{4x^2y^3 - 4x^2y - 32x^2y^2}{4x^2y^2}$$

$$= -5x^2y^2(4x - 2x^2y^2 + y)$$

2. Multiply two binomials:

$$= (4x - 1)(3x - 7)$$

$$= (3x - 2y)^2$$

$$= 8x(2x - 1)^2$$

3. Polynomial Long Division:

$$= \text{Divide } 3x^3 + x^2 + 9x^2 + 2x - 3 \text{ by } x^2 + 2$$

4. Factor the following polynomials:

$$= x^2 + 7x + 6$$

$$= 2x^2 + 7x + 3$$

$$= x^2 - 27$$

$$5. \text{ Simplify: } \frac{x^2 - 64}{x^2 - 8x + 8}$$

$$6. \text{ In lowest terms, the quotient of } \frac{x^2 + 8x + 16}{x - 3} \div \frac{x^2 - 16}{x + 3} \text{ is}$$

7. Adding & Subtracting Rational Expressions:

$$= \frac{6x}{y^2z^2} + \frac{7}{y^2z^2}$$

$$= \frac{5}{x^2 - 10x + 16} - \frac{6}{x - 2}$$

Algebra 2 Final Exam Answers

Jack Moshman



Algebra 2 Final Exam Answers:

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