

Name _____

Date _____ Pd. _____

Notes: Dividing Polynomials

Example 1

Find $(4r^2 - 12r) \div 2r$.

Example 2

Find $(3x^2 - 8x + 4) \div 4x$.

Example

Find $(x^2 + 7x + 10) \div (x + 3)$.

Step 1 Divide the first term of the dividend, x^2 by the first term of the divisor, x .

Step 2 Bring down the next term, 10. Divide the first term of $4x + 10$ by x .

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Exit Card: Dividing Polynomials

The average cost per person of a group taking a cruise is given by the expression $\frac{3000 + 70x - 2x^2}{x}$. Which expression below is equivalent to this expression?

- A. $3000 + 70 - 2x$ B. $3000x + 70 - 2x$
 C. $\frac{3000}{x} + 70 - 2x$ D. $\frac{3000}{x} + 70x^2 - 2x^3$

Which of the following are the solutions to the equation $x^2 - 5x - 6 = 0$?

- A. -2 or 3 B. 2 or -3 C. -6 or 1 D. -1 or 6

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Homework: Page 669 (4, 5, 11 – 14)

<p>4. $(4x^3 + 2x^2 - 5) \div 2x$</p>	<p>5. $\frac{14a^2b^2 + 35ab^2 + 2a^2}{7a^2b^2}$</p>
<p>11. $(x^2 + 9x - 7) \div 3x$</p>	<p>12. $(a^2 + 7a - 28) \div 7a$</p>
<p>13. $\frac{9s^3t^2 - 15s^2t + 24t^3}{3s^2t^2}$</p>	<p>14. $\frac{12a^3b + 16ab^3 - 8ab}{4ab}$</p>