## A1 S2 w6d2 8-8 Factoring 4 Terms + X-box 3

# Alg 1 Week 6 Tue Warm Up

1. Skill 12: Simply Exponential Expressions. Simplify, leaving no negative exponents. Show all steps.

$$\frac{(3r \cdot r^{-2})^2 \cdot r^{-1} \cdot r^3}{(4r^2)^{-2} \cdot r^6}$$

2. Skill 13: Multiplying Polynomials: Use a rectangle to multiply and solve the following problem.

$$(2x^2+5x+4)(x-6)$$

3. Skill 14: Factor a trinomial  $28x^3 + 26x^2 + 6x$ 

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- 4. Put into standard form then classify by degree and number of terms.
  - a.  $15x + 3 x^3$
  - b.  $5b + x^2$
- 5. Add or subtract, then put answer in standard form.
  - $(2x^2+7x) (3x^2-4x+2)$

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Week 6 Tuesday

CW: Notes/Practice 8-8 Factoring Polynomials With 4 Terms

1. What is the factored form of  $3n^3 - 12n^2 + 2n - 8$ ?

2. What is the factored form of  $8t^3 + 14t^2 + 20t + 35$ ?

3. Factor:  $4q^4 - 8q^3 + 12q^2 - 24q$ 

Now you try: Factor each expression.

a. 
$$20r^3 + 8r^2 + 15r + 6$$
 b.  $6d^3 + 3d^2 - 10d - 5$ 

c. 
$$24x^3 + 60x^2 + 36x + 90$$
 d.  $6q^4 + 3q^3 - 24q^2 - 12q$ 

# HW p 531: 13-17 all, 22-24 all & X-Box #3

#### Factor each expression.

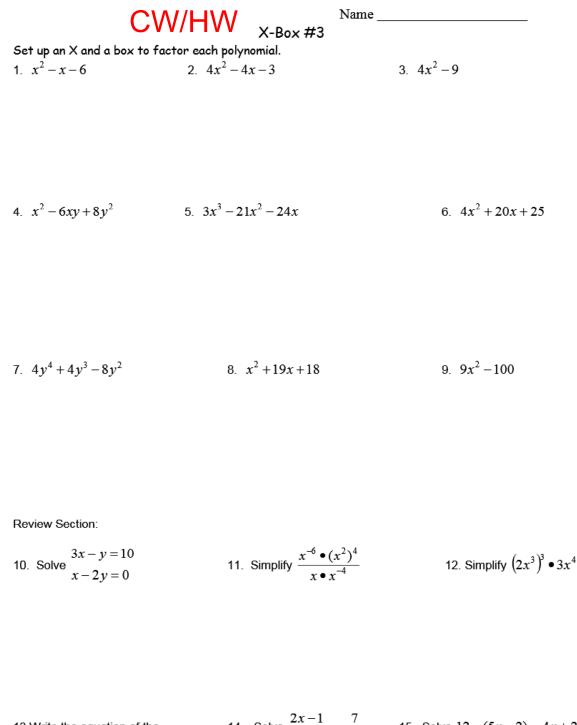
| <b>13.</b> $15q^3 + 40q^2 + 3q + 8$ | <b>14.</b> $14y^3 + 8y^2 + 7y + 4$ | <b>15.</b> $14z^3 - 35z^2 + 16z - 40$ |
|-------------------------------------|------------------------------------|---------------------------------------|
| <b>16.</b> $11w^3 - 9w^2 + 11w - 9$ | <b>17.</b> $8m^3 + 12m^2 - 2m - 3$ | <b>18.</b> $12k^3 - 27k^2 - 40k + 90$ |
| ~ ^                                 |                                    | a a                                   |

| Factor compl | letely. |
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🌒 See Problem **22.**  $8p^3 - 32p^2 + 28p - 112$  **23.**  $3w^4 - 2w^3 + 18w^2 - 12w$  **24.**  $5g^4 - 5g^3 + 20g^2 - 20g$ 

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13. Write the equation of the 14. Solve  $\frac{2x-1}{x-5} = -\frac{7}{5}$  15. Solve 12 - (5x-2) = 4x + 2(x-1) line that passes through

line that passes through (-2,4) and (6,8).