Alg 1 Week 5 Friday

Warm Up

For each polynomial, factor the GCF out.

$$4x^3 - 22ax^2 + 18ax = 2x(2x^2 - 11ax + 9a)$$

Try to do these by looking at them, not breaking them apart.

1.
$$2x^2 - 14x + 26$$

2.
$$-y^2 - 4y + 8$$

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$$2x^2 - 14x + 26$$
 2. $-y^2 - 4y + 8$ 3. $3x^4 + 12x^3 - 3x^2$

4.
$$36ax^5 - 42x^3y - 48ax^3z^2$$
 5. $32x - 14x^2$

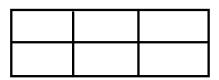
5.
$$32x - 14x^2$$

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

$$\frac{\left(5r \cdot r^{-2}\right)^{-2} \cdot r}{\left(3r^{-1} \cdot r\right)^3}$$

7. Skill 13: Multiplying Polynomials: Use a rectangle to multiply the polynomials.

$$(2x-5)(3x^2+4x-6)$$



8. Fill in the "diamond" problems. Multiply to make the top, add to make the bottom.

















Alg1 Wk 4 Friday HW Let's Play X-Box #2!!!!!

Name

Remember that Rule Number 1 in factoring is: Always factor out the GCF first! Use an X and a box to factor the following completely. Look for GCF first and don't forget it in your answer.

*1.
$$2k^2 + 22k + 60$$
 (hint: GCF?)

2.
$$m^2 + 2m - 24$$

*3.
$$-2n^2-5n-2$$

4.
$$6x^2 + 37x + 6$$

5.
$$2p^2 + 2p - 4$$

6.
$$5x^2 + 19x + 12$$

7.
$$n^2 - 10n + 9$$

8.
$$3x^2 - 27$$

*9.
$$x^2y + 4xy + 4y$$

10.
$$4n^2 - 17n + 4$$

11.
$$5v^2 - 30v + 40$$

12.
$$y^2 - 100$$

13.
$$10a^2 + 100a + 250$$

*14.
$$200x^4 + 80x^3 + 8x^2$$

15.
$$a^2 + 11a + 18$$