Journal Entry: FOT L

Multiply: (x-2)(x+4) $x^2 + 4x - 2x - 8$ What process did you use? What method have you learned that helps multiply binomials?

Section 4-4
Factoring Quadratic Expression

Students will be able to:

- -find common and binomial factors
- -factor special quadratics

Aug 18-2:52 PM Aug 18-2:52 PM

Factor: 1. $x^{2} + 14x + 40$ (x + 4)(x + 10)2. $x^{2} - 11x + 30$ (y - 5)(x - 6)3. $-x^{2} + 14x + 32 = -1(x^{2} - 14x - 36) = -1(x + 2)(x - 16)$ Factor: $7n^2 - 21$ $7(n^2 - 3)$ $9x^2 + 9x - 18$ $9(x^2 + x - 2) = 9(x + 2)(x - 1)$ $4x^2 + 8x + 12$ $4(x^2 + 2x + 3)$

Aug 18-2:52 PM Aug 18-2:52 PM

Factor: $4x^{2} + 7x + 3$ x + ()(4x + 3) $2x^{2} - 7x + 6$ $2x^{2} - 7x + 6$

A perfect square trinomial is a trinomial that is the square of a binomial. $x^{2} + 14x + 49 = (x + 7)^{2}$ 7Factor: $x^{2} + 20x + 100 = (x + 10)^{2}$ X

Perfect Square Trinomial:

$$a^2 + 2ab + b^2 = (a + b)^2$$

$$a^2 - 2ab + b^2 = (a - b)^2$$

Factor: $64x^2 - 16x + 1$

Aug 18-2:52 PM

Aug 18-2:52 PM

Difference of 2 squares:

$$a^2 - b^2 = (a + b)(a - b)$$

Factor:

$$x^2 - 25 = (x-5)(x+5)$$

$$49x^2 - 1 = \left(7x + 1 \times 7x - 1 \right)$$

Aug 18-2:52 PM

Hwk: pg. 221 - 223 #14 - 46(4th), 52, 56 - 72 (4th), 74 - 86 evens, 92

Quiz Monday over 4.1-4.4

Aug 18-2:52 PM



Aug 18-2:52 PM

Aug 18-2:52 PM

4-4.notebook November 27, 2013



Aug 18-2:52 PM