Algebra 1

Our Goal: To learn to factor the difference of two squares

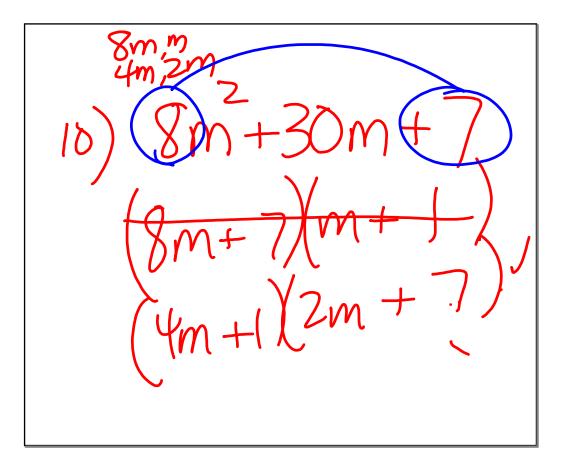
Warm Up: FOIL review

Today's Homework

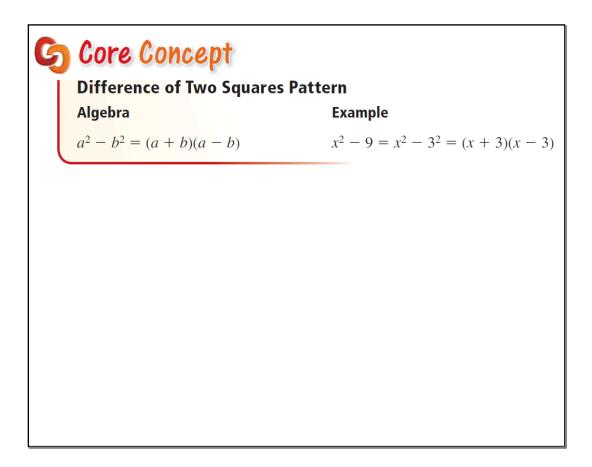
- 7.7 Exercises, p.401: 4-40 (evens)

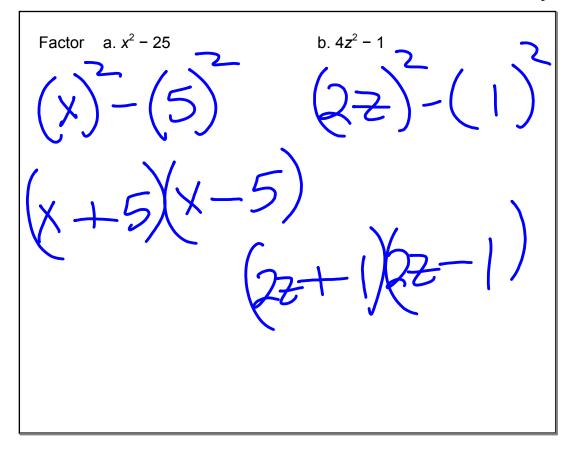
- iready is due tomorrow (the snow day did not make this a "short" week)

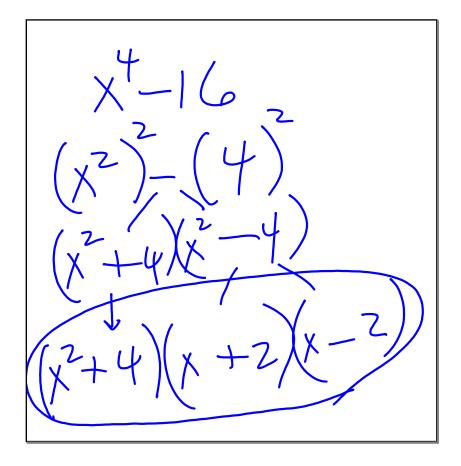
Previous Homework 7.6 Exercises, p.395: 4-32 (evens)

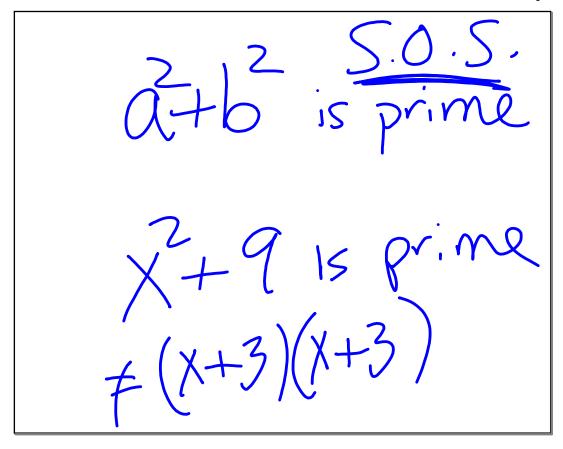


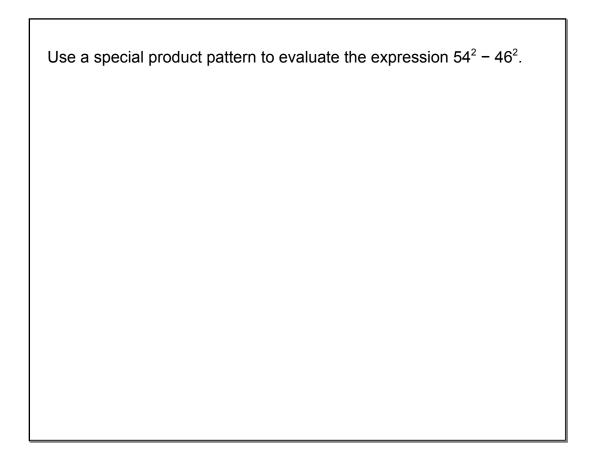
Simplify. $\begin{array}{c} \begin{array}{c} 1. (y-5)^{2} \\ y^{2} \\ -10 \\ y^{+} \\ 25 \\ x^{+} \\ +25 \\ x^{+$ **5.** $(4x-9y)^2$ **6.** $(2x-7)^2$

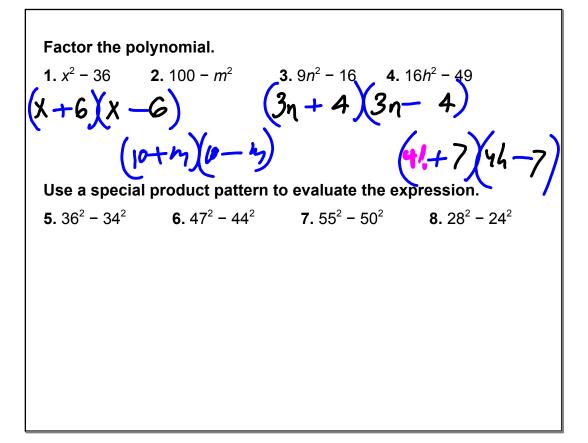




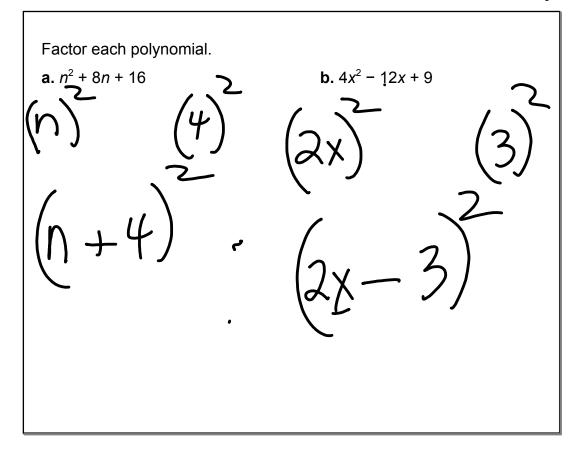


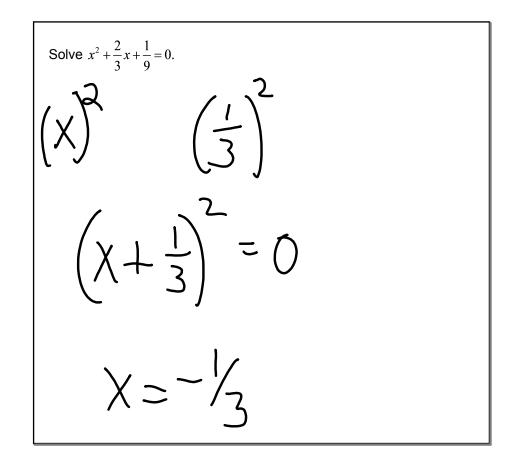




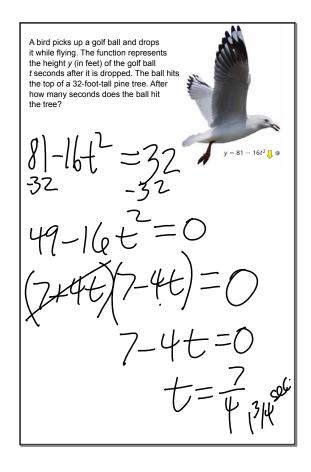


Core Concept Perfect Square Trinomial Pattern Algebra Example $a^2 + 2ab + b^2 = (a + b)^2$ $a^2 - 2ab + b^2 = (a - b)^2$ $x^2 + 6x + 9 = x^2 + 2(x)(3) + 3^2$ $= (x + 3)^2$ $x^2 - 6x + 9 = x^2 - 2(x)(3) + 3^2$ $= (x - 3)^2$





Factor the polynomial. ~ **9**(2 11. 9z² + 3 **10**. $d^2 - 10d + 25$ + d **9.** *m*² – 2*m* + 1 (m-1)9/z+2 Solve the equation. **13.** $w^2 - \frac{7}{3}w + \frac{49}{36} = 0$ **14.** $n^2 - 81 = 0$ **12.** $a^2 + 6a + 9 = 0$ 0



• Exit Ticket: Factor each polynomial.

a. 81 – x²

b. *x*² – 24*x* + 144

