6-3 Trinomial Squares

We're going to factor these the same way we are going to factor regular trinomials.

Things to remember:

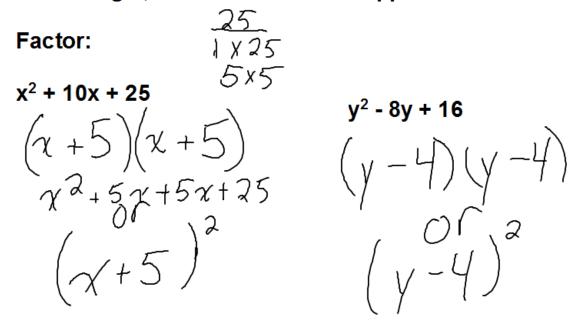
Start End

$$ax^2 + bx + c^2$$
 $(ax + c)(ax + c)$
 $ax^2 - bx + c^2$ $(ax - c)(ax - c)$

In this section, it is easy.

a and c are perfect squares in this section.

Don't forget, Factor out a GCF if applicable!



$$16x^2 - 56x + 49$$

$$(4x-7)^2$$

$$\frac{8x^2 - 40x + 2}{2}$$

$$2(4\chi^2-20\chi+25)$$

$$2(2x-5)(2x-5)$$

$$2(2x-5)^{2}$$

$$4x^2 + 12x + 9$$

$$(2\chi+3)(2\chi+3)$$

$$\left(2\chi+3\right)^{2}$$

$$4x^{2} + 12x + 9$$

$$\frac{2x^{2} + 12x + 18}{2}$$

$$(2x + 3)(2x + 3)$$

$$2(x^{2} + 6x + 9)$$

$$2(\chi + 3)(\chi + 3)$$

$$2(\chi+3)^2$$