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[Function Notation Common Core Algebra 2 Homework Answers](#)

2. $(x + 5)^2 = x^2 + 10x + 25$

3. $(x + 1)^2 = x^2 + 2x + 1$

4. $(x - 1)^2 = x^2 - 2x + 1$

5. $(x - 3)^2 = x^2 - 6x + 9$

6. $(x + \frac{7}{2})^2 = x^2 + 7x + \frac{49}{4}$

Applying this idea.

If one understands this simple idea, that we can predict the square by looking at the coefficient of x , then we can rewrite any quadratic polynomial into an expression involving a perfect square. For example, since

$$x^2 + 4x + 4 = (x + 2)^2$$

then a polynomial that begins $x^2 + 4x$ must involve, somehow, $(x + 2)^2$. For example:

$$x^2 + 4x = (x + 2)^2 - 4$$

$$x^2 + 4x + 7 = (x + 2)^2 + 3$$

$$x^2 + 4x - 5 = (x + 2)^2 - 9$$

Since $x^2 - 6x$ is the beginning of

$$x^2 - 6x + 9 = (x - 3)^2$$

then

$$x^2 - 6x = (x - 3)^2 - 9.$$

and so

$$x^2 - 6x + 2 = (x - 3)^2 - 7,$$

$$x^2 - 6x + 10 = (x - 3)^2 + 1,$$

$$x^2 - 6x - 3 = (x - 3)^2 - 12,$$

(etc.)

Since $x^2 - 3x$ is the beginning of

$$x^2 - 3x + \frac{9}{4} = (x - \frac{3}{2})^2$$

then

$$x^2 - 3x = (x - \frac{3}{2})^2 - \frac{9}{4}.$$

This is useful if we are trying to put an equation $y = f(x)$ of a quadratic into the standard form $y = a(x - h)^2 + k$. For example, if

$$y = x^2 + 4x + 7$$

is the equation of a parabola then we can complete the square, writing $x^2 + 4x = (x + 2)^2 - 4$ and so $x^2 + 4x + 7 = (x + 2)^2 - 4 + 7 = (x + 2)^2 + 3$. Our equation is now

$$y = (x + 2)^2 + 3.$$

We see that the vertex of the parabola is $(-2, 3)$.

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