Name: _____

Date: _____

Learning Goal 3.3	Convert standard form of the quadratic equation to
	vertex form by completing the square.

Standard Form \rightarrow Vertex Form

Complete the square on this quadratic function.

$$f(x) = x^2 + 8x + 5$$

- 1. Start the same way we did in the exploration 2. Add in the rest of the equation. activity.

- 3. Isolate the perfect square trinomial
- 4. Simplify.

Example Convert the following functions into vertex form of the equation.

a. $f(x) = x^2 + 6x + 5$ 1.	b. $g(x) = x^2 + 8x - 7$ 1.
2.	2.
3.	3.
4.	4.
c. $h(x) = x^2 + 7x - 45$ 1.	d. $y = x^2 + 19x + 66$ 1.
c. $h(x) = x^2 + 7x - 45$ 1.	d. $y = x^2 + 19x + 66$ 1.
c. $h(x) = x^2 + 7x - 45$ 1. 2. 3.	 d. y = x² + 19x + 66 1. 2. 3.