

## Changing from General Form to Standard (Vertex) Form

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### Perfect square trinomials:

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It is much easier to graph a quadratic function if it is given in vertex form. Therefore, if a quadratic is given in general form, the following steps must be done in order to change it to vertex form.

- 1)  $y = ax^2 + bx + c$
- 2) Factor out a between the first two terms (this is a division process). Leave the third number out.
- 3) Complete to a perfect square inside the bracket. (Half the middle number, square it, add and subtract)
- 4) Distribute the outside number. (regroup)
- 5) Identify the perfect square and collect like terms

### Example 1:

### Example 2:

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Example 3:

Example 4:

Example 5:

Example 6: