

## **Converting Vertex to Standard Form**

Convert the following equations to standard form.

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

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

$$3. \ y = (x - 4)^2 + 4$$

$$4. \ y = (x - 2)^2 + 4$$

$$5. \ y = 2(x + 3)^2 - 4$$