

Standard Form to Vertex Form

- Write the equation in vertex form:
- $y = 3x^2 - 6x + 8$
- $y = 3(x^2 - 2x \quad) + 8$ factor out “a”
- $y = 3(x^2 - 2x + 1) + 8 - 3$ complete the square
- $y = 3(x - 1)^2 + 5$ factor and combine