The Parabola

- Equations of the parabola
 With focus (0, a) and directrix y = -a is: x² = 4ay
 With vertex (h, k) and axis parallel to the y-axis is: (x h)² = 4a(y k)

General equations with axis parallel to: - y-axis is $y = Ax^2 + Bx + C$ - x-axis is $x = Ay^2 + Bx + C$