Derivation of Quadratic formula
$$= \frac{b + b^2 - 4ac}{2a}$$

$$ax^2 + bx + c = 0$$

$$x^2 + (b/a)x + (c/a) = 0$$

$$x^2 + (b/a)x = -c/a$$

$$x^2 + (b/a)x + (b/2a)^2 = -c/a + (b/2a)^2$$

$$[x + (b/2a)]^2 = -c/a + (b/2a)^2$$

$$x + (b/2a) = \pm \sqrt{-c/a} + (b/2a)^2$$

$$x = -(b/2a) \pm \sqrt{-c/a} + (b/2a)^2$$

$$x = -b \pm b^2 - 4ac$$

$$2a$$