

The discriminant is the number $b^2 - 4ac$, and the solutions to a quadratic equation are given by the formula:

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

If $b^2 - 4ac = \frac{1}{2}$, then the radical would be a real number and there would be two *real* solutions.