

$$a < 0, \quad b^2 - 4ac > 0$$

0

x_0



The figure shows a Cartesian coordinate system with a horizontal x-axis and a vertical y-axis. A solid horizontal line is drawn at the y=0 level, representing the x-axis. A dashed horizontal line is drawn slightly above the x-axis, also at y=0. A parabola is plotted, opening downwards. The vertex of the parabola is in the upper half-plane. The parabola intersects the x-axis at two distinct points, one on the left and one on the right. The x-axis is labeled with x_0 at its right end. The y-axis has a label 0 at the origin.