Position of a point with respect to an Ellipse.

Let $P(x_1, y_1)$ be any point and let $\dfrac{x^2}{a^2} + \dfrac{y^2}{b^2} = 1$ is the equation of an ellipse. The point lies outside,

on or inside the ellipse as if $S_1 = \dfrac{x_1^2}{a^2} + \dfrac{y_1^2}{b^2} - 1 > 0, \ = 0, \ < 0$