Equation of Chord of Contact of Tangents drawn from a Point to a Hyperbola.

Let PQ and PR be tangents to the hyperbola $\dfrac{x^2}{a^2} - \dfrac{y^2}{b^2} = 1$ drawn from any external point

$P(x_1, y_1)$.

Then equation of chord of contact QR is

or $\dfrac{xx_1}{a^2} - \dfrac{yy_1}{b^2} = 1$

or $T = 0$ (At x_1, y_1)