solve ln(2) = ln(0.5403702) − ln(0.7937254) − (((x−3.4)^2)/(2∗0.7937254)) + (((x−3.0)^2)/(2∗0.5403702))
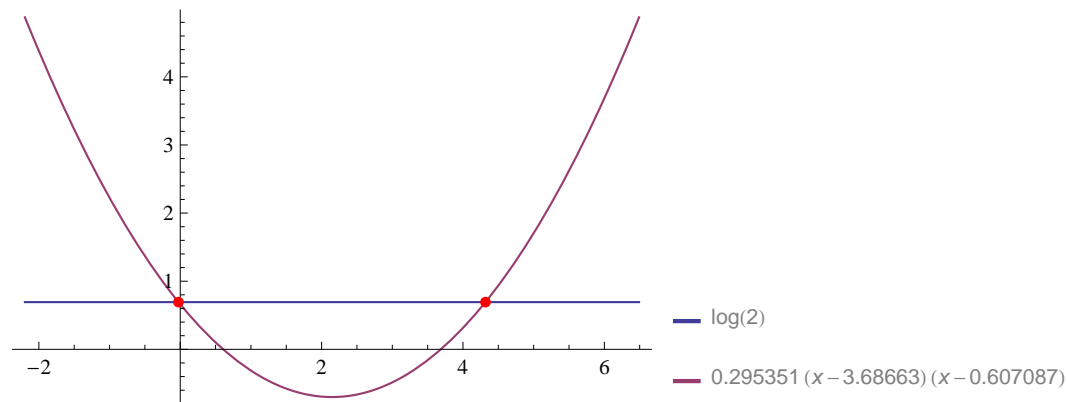
Input interpretation:

solve	$\log(2) = \log(0.5403702) - \log(0.7937254) - \dfrac{(x-3.4)^2}{2 \times 0.7937254} + \dfrac{(x-3.)^2}{2 \times 0.5403702}$

Results:

$x = -0.0251816$

Plot:

— log(2)

— $0.295351\,(x - 3.68663)\,(x - 0.607087)$

Number line: