Name

Quiz

Consider the parabola $y = (x - 3)^2 = x^2 - 6x + 9$. Its graph is depicted in the figure below.



a. Set up a definite integral that represents the area under parabola and over the interval $0 \le x \le 3$. Find the numerical value of the area.

Integral: Value:

b. Set up a definite integral that represents the length of the parabola from the point (1, 4) to the point (5, 4). No need to evaluate the integral.

Ans. \int
