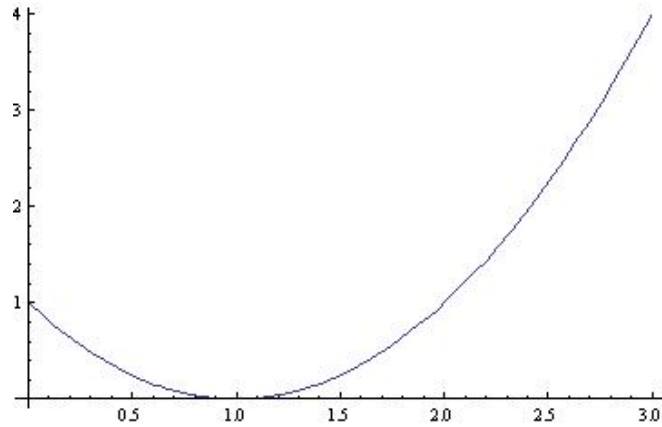**Question #8546** onsider the curve $y = x^2 - 2x + 1$.
a) sketch the curve over the range $x = 0$ to $x = 3$
b) evaluate the area bounded by the curve and the x-axis between the limits x=0
and x=1.

Solution.

1)

2) This area equals $\int_0^1 (x-1)^2 \, dx = 1/3(x-1)^3 \Big|_{x=0}^{x=1} = 1/3$.

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