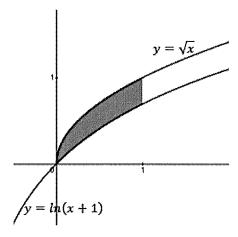
LT3: I can compute the area of a region bounded by two curves, including determining whether to integrate with respect to x or y.

1. Consider the region bounded by the curves  $y = \ln(x+1)$ ,  $y = \sqrt{x}$ , the y-axis, and the line x = 1 that is shaded in the figure below.



Write the definite integral that gives the area between the curves. You do not need to solve the integral.

$$\int_{0}^{1} \left( \left( x - \ln(x+1) \right) \right) dx$$