<u>4C Revolutions with Parametrics</u>

1. The curve *C* shown has parametric equations:

$$x = t(1+t), \quad y = \frac{1}{1+t}, \ t \ge 0$$

The region *R* is bounded by the curve, the x-axis and the lines x = 0 and x = 2.

Find the exact volume of the solid formed when *R* is rotated 2π radians about the x-axis.

