## Math 1B Discussion Problems 14 Feb

1. Find the length of the curve $y=\frac{x^{3 / 2}}{3}-x^{1 / 2}$ from $x=1$ to $x=9$.
2. Find the length of the curve $y=1-e^{-x}$ from $x=0$ to $x=2$.
3. Consider the curve $y=-\ln x$ from $x=0$ to $x=1$.
(a) Find the area bounded by the curve, the x -axis, and the y -axis.
(b) Find the length of the curve.
