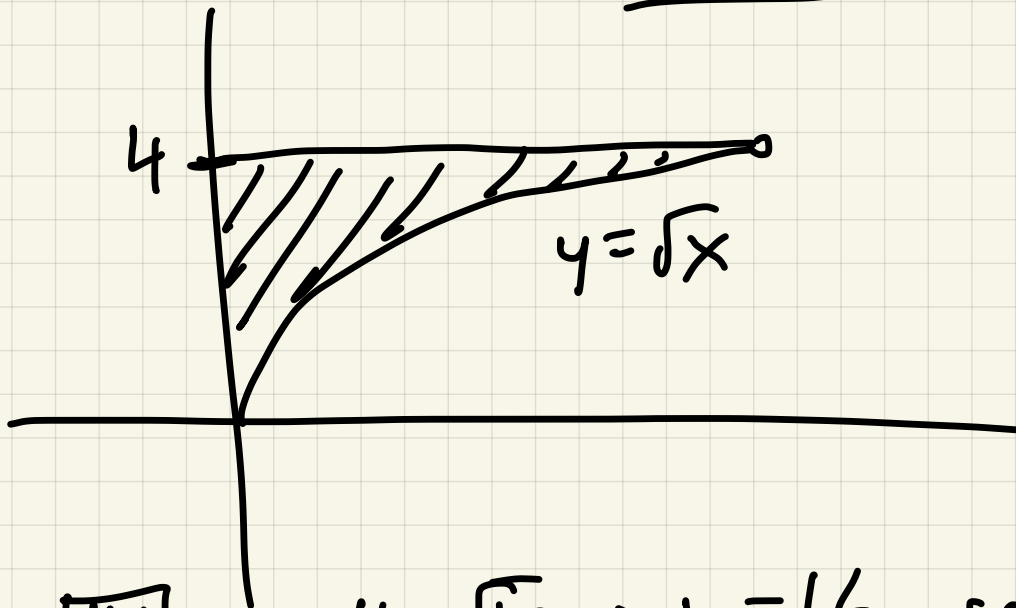


Quiz 2



#1 $y=4=\sqrt{x} \Rightarrow x=16$, so

$$A = \int_0^{16} 4 - \sqrt{x} \, dx = 4x - \frac{2}{3}x^{3/2} \Big|_0^{16} =$$

$$64 - \frac{2}{3}(64) = \frac{64}{3}$$

#2 $y=\sqrt{x} \Rightarrow x=y^2$, so

$$A = \int_0^4 y^2 - 0 \, dy = \frac{y^3}{3} \Big|_0^4 = \frac{64}{3}$$

//✓