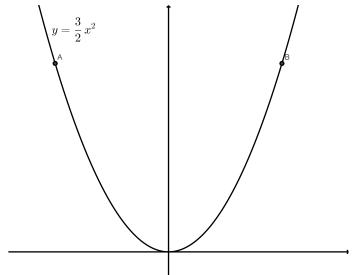
- 1. Find the length of the curve on the graph of  $y = 1 + 6x^{\frac{3}{2}}$  between x = 0 and x = 1.
- 2. Find the length of the curve on the graph of  $y = \ln(\cos x)$  between x = 0 and  $x = \frac{\pi}{3}$ .
- 3. Find the length of the curve on the graph of  $y = 2(x-1)^{\frac{3}{2}}$  between x = 1 and x = 2.
- 4. The points A and B are equidistant from the y-axis. Find the points A and B below so that the area under the curve between A and B is 8.



5. Find the point D below so that the length of the curve between C and D is  $\frac{3}{2}$ .

