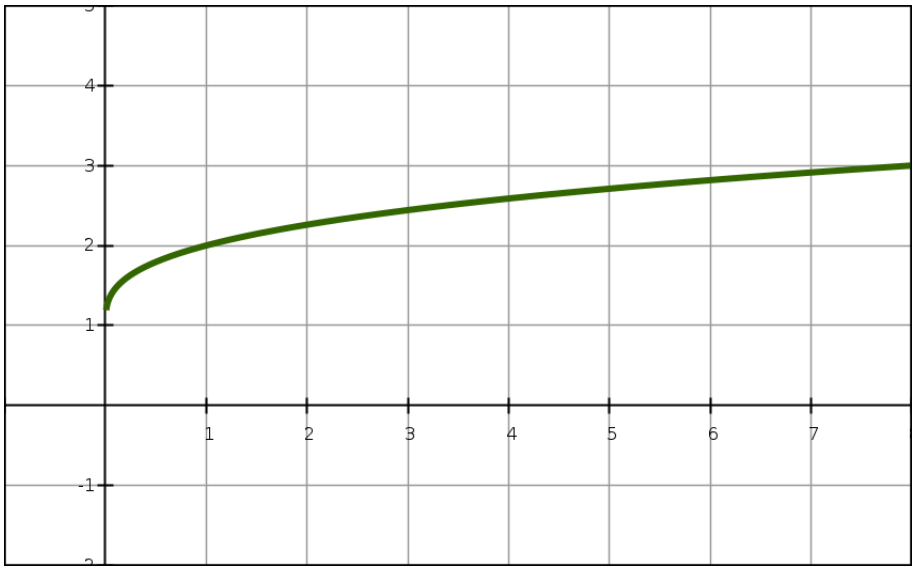
Name: Class quiz 1 January 26, 2018

I) Consider the function $f(x) = x^{1/3} + 1$ on the interval [0,8].

a- Draw four rectangles on this graph to estimate the area under the graph of the function f between 0 and 8, using right endpoints.

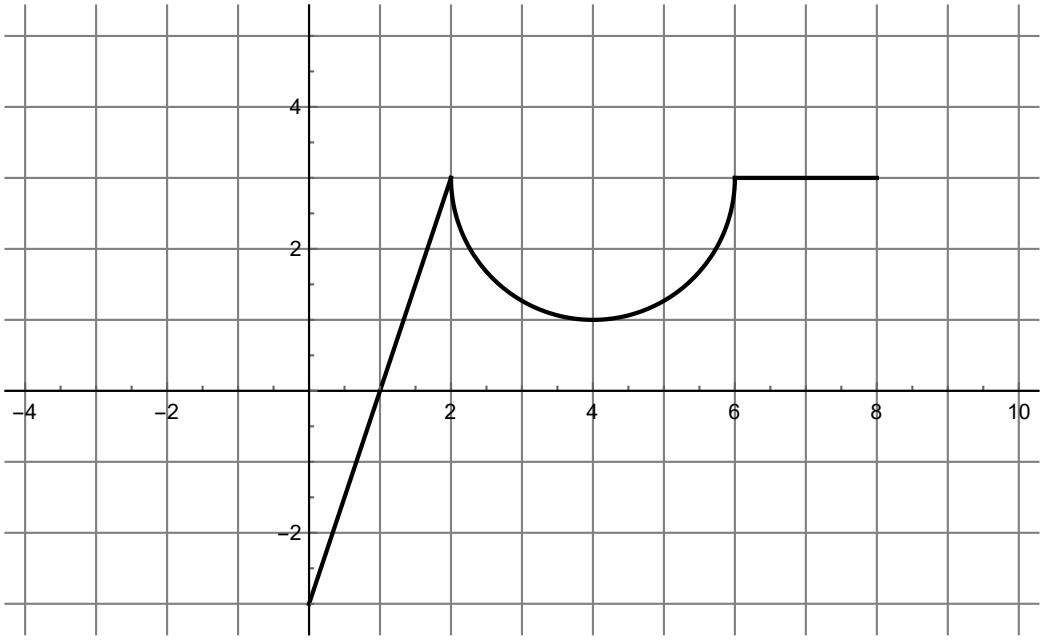


b- Find the following approximate areas. (You can leave some values in the form $a^{\frac{1}{3}}$)

(a) Use the Left endpoints, find:
$L_4 =$

(b) Use the Midpoint, find:
$M_4 =$

III) Given the following graph of a function $f(t)$.



calculate the following integrals:

a- $\int_0^1 f(x)\,dx =$

b- $\int_2^6 f(x)\,dx =$

c- $\int_6^8 f(x)\,dx =$

d- $\int_0^8 f(x)\,dx =$