Section 5.4

CQ #1: Find the area of the region between the graphs of $y = 6x^2$ and $y = 6x$ on the interval $[0, 1]$.

a) 0
b) 0.5
\[\text{c) 1}\]
d) 1.5
e) 2

Draw a picture!

\[\int_0^1 (6x - 6x^2) \, dx = \left[3x^2 - 2x^3\right]_0^1 = 3 - 2 - (0 - 0) = 1.\]