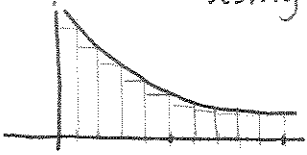


(§5.3) Homework Handout

(From Lecture Material - Not in book)

1a] • Estimate the area of $f(x) = e^{-x}$ between 0 and 2 using the right endpoints of the rectangles and ten subintervals.



• Express your approximation using sigma notation.

1b] Evaluate $\int_0^2 e^{-x} dx$.

2a] • Do the same for $f(x) = x^3 - 6x$ between 0 and 3 using right endpoints and ten subintervals.

2b] Evaluate $\int_0^3 (x^3 - 6x) dx$

2c] What could you do to make your approximation from a) closer to b)?