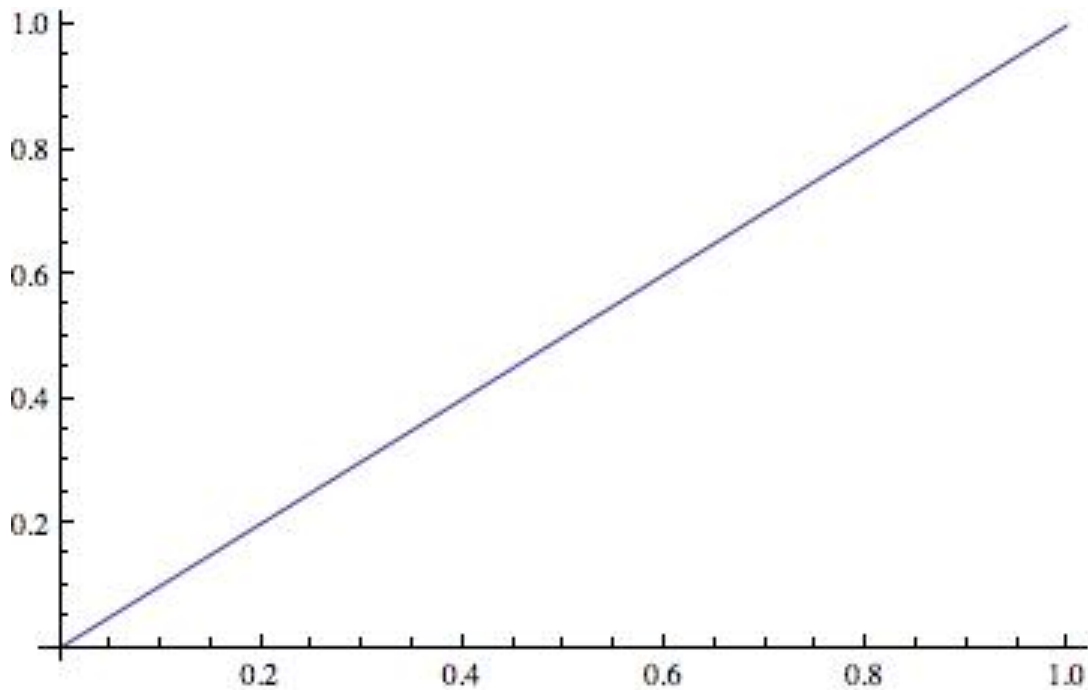
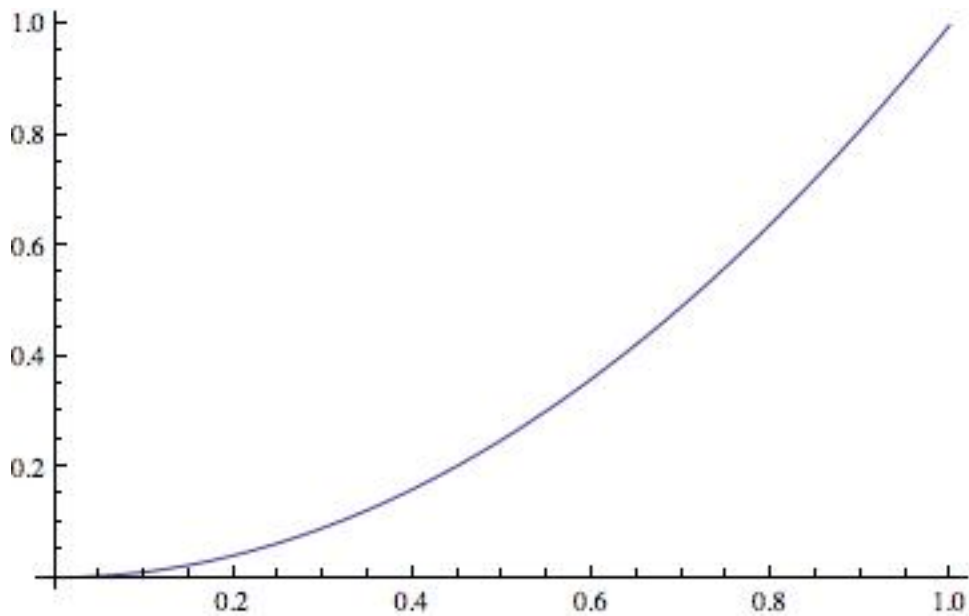


MAT227:
Riemann Integral for the area between the
function $f(x)=x$
and the x-axis



1. Draw the RRR approximation for 5 subintervals.
2. Write the RRR summation form that approximates the Riemann Integral with n subintervals: what is
 - a. The partition, and
 - b. The list of centers?
3. Compute the limit of this sum as n goes to infinity.
4. Compute the area graphically. How did we do?
5. What would be the average value of the function on the interval $[0,1]$?

Same thing for the function $f(x)=x^2$:



1. Draw the RRR approximation for 5 subintervals.
2. Write the RRR summation form that approximates the Riemann Integral with n subintervals: what is
 - a. The partition, and
 - b. The list of centers?
3. Compute the limit of this sum as n goes to infinity (see p. 298 for help!).
4. Compute the area graphically. How did we do?
5. What would be the average value of the function on the interval $[0,1]$?