Due **Wed.** 15 Nov, in **Class**. Include your reci. number. Show your work.

. 10   1. Consider the function $f(x) = 3x^2$ on the interval $[0, 2]$.

     (a) Find the Riemann sum for this function using a partition of $[0, 2]$ into n equal subintervals and the righthand rule.

     (b) Find the Riemann sum for this function using a partition of $[0, 2]$ into n equal subintervals and the lefthand rule.

     (c) The the limits of these two Riemann sums as n goes to infintiy.

     HINT: Look carefully at Example 5 on page 328.