Estimate the area of the region bounded by \( f(x) = 12 - x^2 \), the x-axis, \(-1 \leq x \leq 2\), using 6 rectangles.

a) \( \Delta x = \)  

b) Sketch

c) Calculate \( A_L \)

d) Calculate \( A_R \)

e) \( A \approx \frac{A_L + A_R}{2} \)