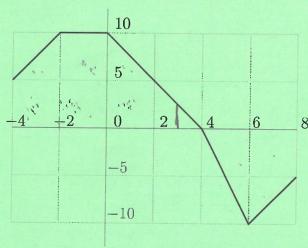
You must show your work to get full credit.



1. For the function with graph given above compute the following (and remember that area below the x-axis counts as negative when computing an integral):

the x-axis counts as negative when computing an integral):
$$4 + \frac{1}{2} + \frac{1}{2} + \frac{3}{2} = \frac{5 \cdot 3}{5 \cdot 3} \cdot \frac{5}{5} \quad \text{hows} \quad \int_{-4}^{1} f(t) dt = \frac{5 \cdot 3}{5 \cdot 3} \cdot \frac{5}{5} \cdot \frac{5}$$

2. Use your calculator to graph the function $y = 9 - x^2$ for $-4 \le x \le 4$.

(a) Make a picture of the graph here:

(b) What is the area under the graph and over the x-axis for $-3 \le x \le 3$. Be sure to write down how you used the calculator to compute this.

Lower limit = -3 Upper limit = -3

The area is 36