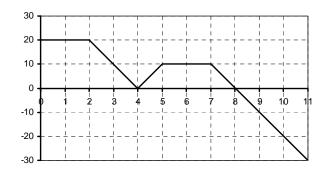
FUNDAMENTAL THEOREM PART 1



Use the graph of f(x) shown below to answer the following:

1. Find $\int_0^3 f(x) dx$. Include units and an illustration of this quantity on the graph above.

2. Complete this table:

b	0	1	2	3	4	5	6	7	8	9	10
$\int_0^b f(x) dx$											

3. If F(x) is a function such that F(0) = 0 and F'(x) = f(x), find the intervals where F(x) is:

increasing_____

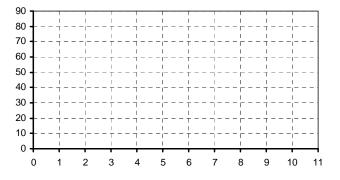
concave up_____

decreasing_____

concave down_____

linear _____

4. Use the information in parts 2 and 3 to sketch an accurate graph of F(x).



5. How would your graph of F(x) change if F(0) = 2 instead?