1. Answer the following about using a Riemann sum using 5 rectangles with equal bases for the function $f(x) = x^3 + 2$ from $x = 1$ to $x = 21$. Note: start counting the rectangles from the left side of the interval.

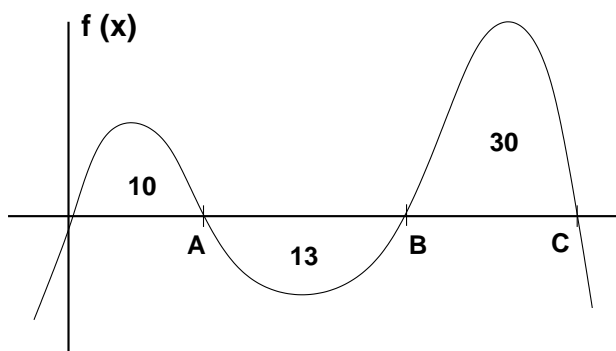   (a) base of each rectangle= $\dfrac{21 - 1}{5} = 4$

   (b) If the left endpoint method is used, what would be the <u>height</u> of the third rectangle?

   The chart below shows the starting and stopping of each rectangle. The arrow points to the number used to compute the height of the desired rectangle.
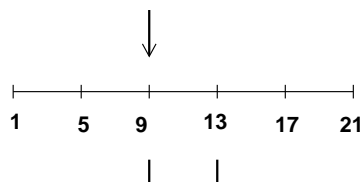
   Height : $f(9) = 731$

2. Use the graph of $f(x)$ to answer these questions.

   (a) $\displaystyle\int_A^C f(x)\,dx = 17$

   (b) $\displaystyle\int_0^A 2f(x)\,dx = 2 * 10 = 20$