Name:

You must show your work to get full credit.

(1) Graph the graph of the derivative y = f'(x) for the function y = f(x) given in Figure 1.

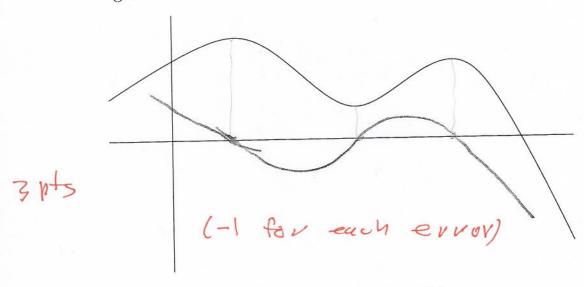


FIGURE 1. Graph of y = f(x)

(2) The following table gives some values for y = f(x). $\begin{array}{c|cccc} x & 0 & 2 & 4 & 6 \\ \hline f(x) & 12 & 18 & 30 & 42 \end{array}$

$$\frac{x}{\text{Make a table for } y = f'(x)} = \frac{x}{f'(x)} = \frac{1}{3} = \frac{3}{5}$$

at
$$\frac{60}{6x} = \frac{19-12}{2-0} = \frac{6}{2} = 3$$

at $\frac{30-18}{6x} = \frac{12}{2} = 6$
at $\frac{30-18}{6x} = \frac{12}{2} = 6$
at $\frac{45}{6x} = \frac{42-30}{6-4} = \frac{12}{2} = 6$