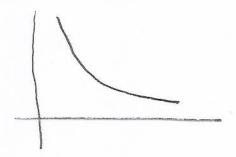
(1) Draw a graph that is decreasing and concave up.



(2) A rock is dropped off the side of a building. After t seconds it has traveled $16t^2$ feet. What is the average speed between t = 1 and t = 3 seconds?

$$\frac{\Delta d_{15}^{+}}{\Delta t} = \frac{16(3)^{2} - 16(1)^{2}}{3 - 1}$$

$$= 69 + 4/\sec$$

69ft/sec

 $\begin{array}{c|c}
 & \text{The function } f(t) \text{ is given by} \\
 & t & 0 & 2 & 4 \\
\hline
 & f(t) & 5 & 8 & 15
\end{array}$

$$\begin{array}{c|cccc} t & 0 & 2 & 4 \\ \hline f(t) & 5 & 8 & 15 \end{array}$$

Is this concave up, concave down, or neither?

