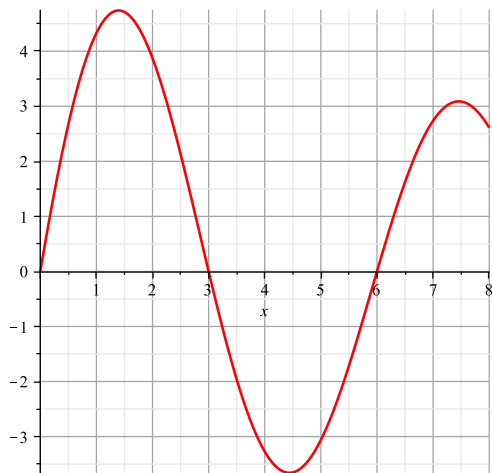


Let  $F(x) = \int_1^x f(t) dt$  where  $f(t)$  is the function graphed below.

1. Where is  $F$  increasing? decreasing?
2. Where does  $F$  have a local max?  
a local min?
3. Is  $F$  concave up or concave down  
at  $x = 3$ ?
4. Determine if the following values are  
positive or negative:  
 $F(3)$ ,  $F(4)$ ,  $F(0)$ ,  $F(1)$ ,  
 $F(6) - F(3)$
5. Write the equation of the line tangent to  
 $y = F(x)$  at  $x = 1$ .



**Graph of  $y=f(t)$**