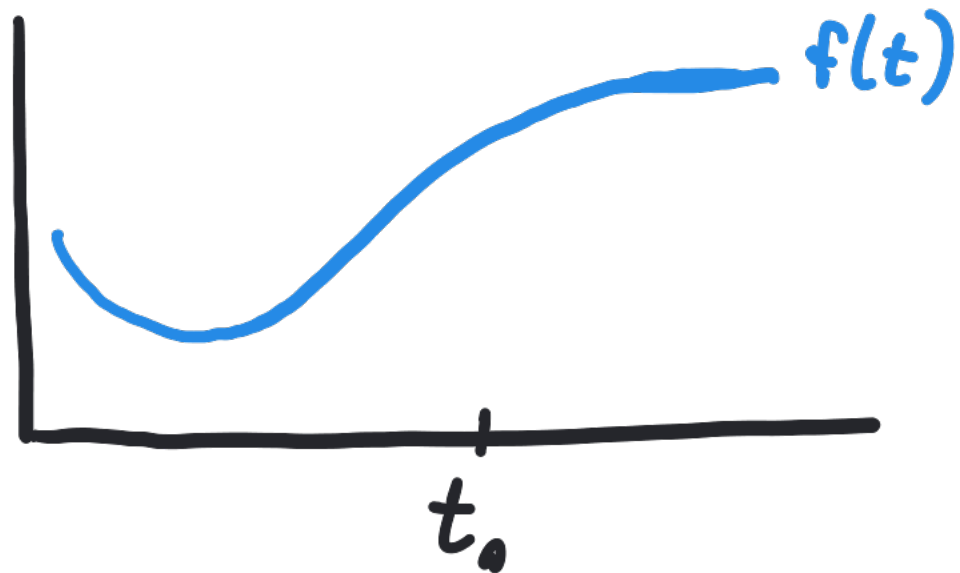
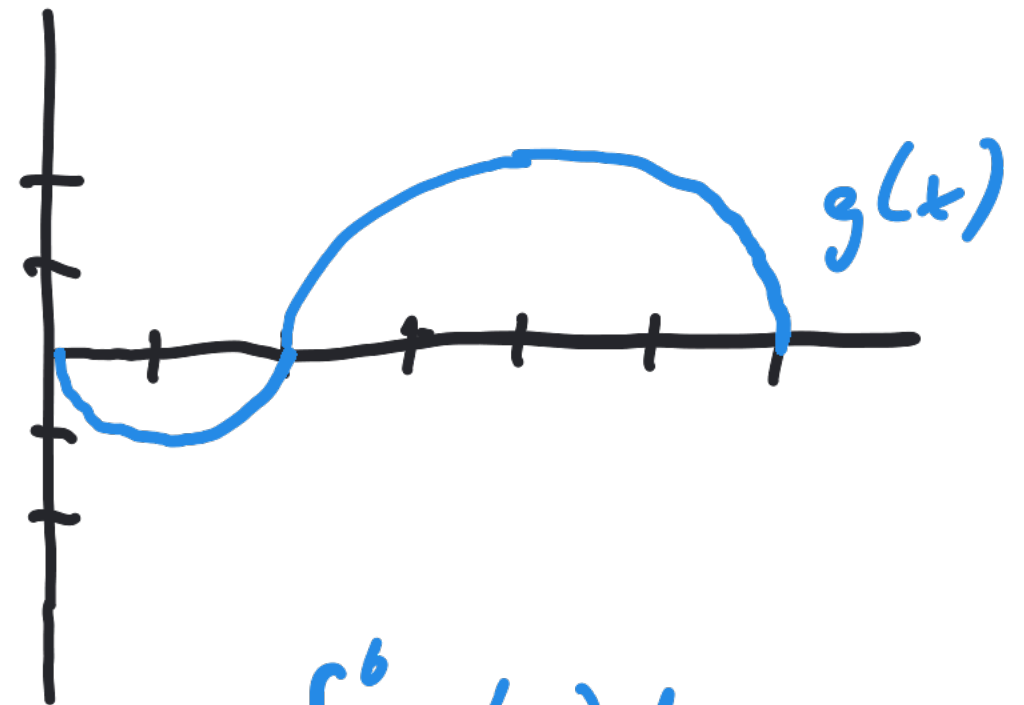


1. $f(t)$ = revenue of company
on day t



- is $f'(t_0)$ positive or negative?
- is $f'(t)$ increasing or decreasing when $t = t_0$?

2.



Find $\int_0^b g(x) dx$.

(The two parts of the graph are semicircles.)

3. Compute:

a) $\frac{d}{dt}(\sin(3t^4))$

b) $\frac{d}{dx}(x \ln(x))$

4. One mathematician says,
" $x^2 + y^2 = 4$ is a circle
around the origin with
radius 2."

Another says, "Huh? $x^2 + y^2 = 4$
is an equation. What do you
mean that it's a circle?"

Can you think of anything to
say in response