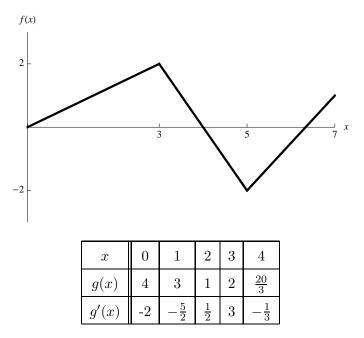
1. [10 points] Given below is a graph of a function f(x) and a table for a function g(x).



Give answers for the following or write "Does not exist." No partial credit will be given.

i)
$$\frac{d}{dx}f(g(x))$$
 at $x = 0$

ii)
$$\frac{d}{dx}[f(x)g(x)]$$
 at $x = 2$

iii)
$$\frac{d}{dx} \left[\frac{f(x)}{g(x)} \right]$$
 at $x = 4$

iv)
$$\frac{d}{dx}[g(f(x))]$$
 at $x = 3$

v) f(g'(3))