Suppose that the functions f and g and their derivatives with respect to x have the following values at x = 0 and x = 1.

x	f(x)	g(x)	f'(x)	g'(x)	
0	1	1	5	1/3	_
1	3	-4	-1/3	-8/3	

Evaluate the derivatives with respect to x of the following combinations at the given value of x.

1.
$$f(g(x))$$
 at $x = 0$

2.
$$g(f(x))$$
 at $x = 0$

3.
$$5f(x) - g(x), x = 1$$

4.
$$f(x + g(x))$$
 at $x = 0$

5.
$$f(x) g^3(x)$$
 at $x = 1$