CW_Charts and Rules **Calculus AB**

Assume that $f(x)$ and $g(x)$ are differentiable functions about which we know information about a few discrete data points. The information we know is summarized in the table below:

x	$f(x)$	$f'(x)$	$g(x)$	$g'(x)$
-2	4	-1	5	6
-1	3	-5	1	7
0	-6	-3	8	-5
1	1	6	2	3
2	-1	5	1	?

Use your differentiation rules to determine each of the following.

1. If $p(x) = xf(x)$, find $p'(2)$.

2. If $q(x) = 3f(x)g(x)$, find $q'(-2)$.

3. If $r(x) = \dfrac{f(x)}{5g(x)}$, find $r'(0)$.

4. If $t(x) = \dfrac{2 - f(x)}{g(x)}$ and $t'(2) = 4$, find $g'(2)$.

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