

Quiz 7 — MA161 — September 21, 2018

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1. (12 points) If $f(3) = 2$, $f'(3) = -1$, $g(3) = 5$, and $g'(3) = 4$, find the following values.

(a) $(fg)'(3)$

(b) $\left(\frac{f}{g}\right)'(3)$

(c) $\left(\frac{g}{f}\right)'(3)$

2. (8 points) Solve the equation $f'(x) = 3$ for x , where $f(x) = x\sqrt{x}$.