MA 16010 - Quiz 5 - Fall 2017

Directions: Show all the work leading to your answers. Some correct work with an incorrect answer will earn you partial credit. A correct answer without justification will not earn you full credit.

1. Find the derivative of $f(x) = 8\cot\left(4x^3 - 3x^2 + \frac{\pi}{2}\right)$ at $x = 0$.
2. Find the derivative of $g(x) = \ln\left(\sqrt{x}\right)$.