

Section 4.2 Worksheet

Find the derivatives of the following functions

1. $f(x) = (1 + \sqrt{x})x^3$

2. $g(t) = \left(\frac{2}{t} + t^5\right)(t^3 + 1)$

3. $h(y) = \frac{1}{y^3 + 2y + 1}$

4. $g(z) = \frac{z^2 + 1}{z^3 - 5}$