Section 2.2 Worksheet

1. Let $g(t) = 5 - t^2$. Find $g'(-5)$ using the limit definition of the derivative.

2. Let $f(x) = 2x^3 + 3x$. Find $f'(2)$ using the limit definition of the derivative.

3. Let $q(x) = \dfrac{1}{x^2}$. Find $q'(2)$ using the limit definition of the derivative.

4. Let $g(p) = \sqrt{p}$. Find $g'(4)$ using the limit definition of the derivative.