

## MCS21 Homework 11

1. Find the slope of  $f(x) = 3x^2 + x - 2$  at  $x = 0$ .
2. Find the slope of  $f(x) = x^4$  at  $x = 1$ .
3. Find the slope of  $f(x) = \sqrt{2x}$  at  $x = 4$ .
4. Find the slope of  $f(x) = \frac{1}{x-3}$  at  $x = 5$ .
5. Find the slope of  $f(x) = \frac{1}{\sqrt{x+2}}$  at  $x = 0$ .