## **Calculus - Introduction**

## **Grade 10 | Difficulty: Easy**

- 1. Find the derivative of  $f(x) = 3x^2 + 2x 1$ .
- 2. Evaluate the limit:  $\lim (x->0) (x^2 4)/(x 2)$ .
- 3. Find the integral of f(x) = 2x + 3.
- 4. Differentiate:  $y = x^3 2x + 4$ .
- 5. Find the slope of the tangent to  $y = x^2 + 2x$  at x = 2.