

# Differentiation

October 19, 2023

1. **Question(CBSE-papers-math-12-2022-14):** The slope of the normal to the curve  $y = 2x^2 + 3 \sin x$  at  $x = 0$  is \_\_\_\_\_.

**OR**

The total revenue (in ₹) received from sale of  $x$  units of a product is  $R(x) = 3x^2 + 36x + 5$ . The marginal revenue, when  $x = 12$  is \_\_\_\_\_.