CALCULUS
Problem Bank
Differentiation problems
without techniques of differentiation
\[ f(x) = x^3, \quad f'(x) = 3x^2 \]

Equation of tangent line at \((2, 8)\)

(a) \(y - 2 = 3x^2(x - 8)\)

(b) \(y - 8 = 3x^2(x - 2)\)

(c) \(y - 8 = 12(x - 2)\)

(d) none of the above