

(A) Evaluate:  $\lim_{x \rightarrow -2} \frac{5x^2 + 60x + 100}{x^3 + 4x^2 + 4x}$

(B) Evaluate  $\int_1^{256} \left( \frac{\sqrt{x}}{4} + \frac{8}{\sqrt{x}} \right) dx$

(C) Evaluate  $\int_2^6 (10x - 72x^{-3}) dx$