MATHEMATICS FOR LEVEL 5 ALL (MMP, NIT &SOD)

TIME FOR SUBMISSION: 15ᵗʰ SEPTEMBER 2025

Find the indefinite integral of a function:
(use the basic indefinite integral formulas and rules)

a) $\int (3x^2 - 6x + 3)dx$

b) $\int (8x^3 - x^2 + 5x - 1)dx$

c) $\int \left(x^5 + \frac{1}{4}x^4 + \frac{1}{3}x^3 \right)dx$

d) $\int \left(-\frac{x^4}{2} - \frac{x^3}{3} - \frac{x^2}{6} \right)dx$

e) $\int (2x - 6)^3 dx$

f) $\int \left((\sqrt{x} - 5)^2 - x \right)^2 dx$

g) $\int (x^{10} - x^8 + x^6 - x^4)dx$

h) $\int (x^{-5} + x^{-3} + x^{-1})dx$

i) $\int \left(\frac{16}{x^5} - \frac{9}{x^4} + \frac{4}{x^3} \right)dx$

j) $\int (\sqrt{x} + \sqrt[5]{x} + \sqrt[9]{x})dx$

k) $\int (\sqrt[5]{x^7} - \sqrt[4]{x^8} + \sqrt[3]{x^9})dx$

END!!!!!!!!!!!!!!!!!