



Lesson 3.6 – Integrals of Polynomials

1. Evaluate each integral.
 - (a) $\int (x\sqrt{x} + \sqrt[3]{x}) dx$
 - (b) $\int_0^1 (3x^9 - 4x^5 + 2) dx$
2. Let $f(x) = \frac{6}{x^2} - 3x^2$. Find an antiderivative F of f that passes through the point $(2, -5)$.