Calculus Honors
Homework 3 Q4

Exercise 1.

Evaluate the following definite integrals of the algebraic functions .

1. $\int_1^2 (3x^2 - 4x)dx.$
2. $\int_{-1}^2 3dx.$
3. $\int_{-1}^1 (t-2)dt.$
4. $\int_1^3 (3x^2 + 5x - 4)dx.$
6. $\int_{-2}^{-1} (x - \frac{1}{x^2})dx.$
7. $\int_1^4 \frac{x-2}{\sqrt{x}}dx.$
8. $\int_{-8}^{-1} \frac{x-x^2}{2\sqrt[3]{x}}dx.$.
9. $\int_{-1}^0 (\sqrt[3]{x} - \sqrt[3]{x^2})dx.$.
10. $\int_0^{\frac{\pi}{2}} (cosx - sinx)dx.$
11. $\int_0^1 (3x^2 + e^x)dx.$
12. $\int_1^3 \frac{\sqrt{x}-1}{x}dx.$
13. $\int_{-1}^1 |x|dx.$
14. $\int_0^1 |2x-1|dx.$