

(C1-8.4) Name:

Homework Questions 4 – Separate Integration

Integrate the following

1. $\int \frac{2}{x^2} - 3x \ dx$

2. $\int \sqrt{x} + \frac{3}{x^2} \ dx$

3. $\int x(x - 4) \ dx$

4. $\int (x + 2)^2 \ dx$

5. $\int (x - 4)(x + 2) \ dx$

6. $\int \frac{x^3 - 3x}{4x} \ dx$

7. $\int \frac{2}{\sqrt[3]{x}} + \frac{1}{\sqrt{x^3}} + 1 \ dx$

8. $\int \sqrt[3]{x} + 3\sqrt{x} \ dx$

9. $\int \frac{\sqrt{x} + 2x^4}{x^2} \ dx$

10. $\int (\sqrt{x} + 3)^2 \ dx$