

## Worksheet: Integrals (Integration — The Reverse of Differentiation)

Rajasthan State Board · Class 12 · Mathematics · 3 questions · 13 marks

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Score: \_\_\_\_\_ / 13

**Q1.** Evaluate:  $\int e^{3x} dx$ . [3 marks]

---

---

---

**Q2.** Evaluate:  $\int \frac{4 \cos x}{\sin x + \cos x} dx$ . [4 marks]

---

---

---

**Q3.** Evaluate:  $\int \frac{x^2 + 1}{(x^2 + 2)(x^2 + 3)} dx$ . [6 marks]

---

---

---