

### MCS22 Homework 34

Evaluate each definite integral.

$$1. \int_0^3 (2x - 1) \, dx$$

$$2. \int_0^2 (4 - x) \, dx$$

$$3. \int_1^2 (4t - 5) \, dt$$

$$4. \int_1^3 (2x + 3) \, dx$$

$$5. \int_{-3}^0 (x^2 + 2x - 2) \, dx$$

$$6. \int_1^e \frac{dx}{x}$$

$$7. \int_{-\pi/2}^{\pi/2} \cos \theta \, d\theta$$

$$8. \int_0^1 e^x \, dx$$

$$9. \int_{16}^{25} \sqrt{x} \, dx$$