Practice worksheet | Integration

Definite integrals

Name: _____ Date: _____

6 questions | 18 marks

1. Evaluate $\int_0^3 2x\,dx$. [3 marks]

2. Evaluate $\int_1^2 3x^2\,dx$. [3 marks]

3. Evaluate $\int_2^0 (x+1)\,dx$. [3 marks]

4. Evaluate $\int_0^{\pi} \sin x \, dx$. [3 marks]

5. Evaluate $\int_1^{e} 1/x \, dx$. [3 marks]

6. If $\int_0^{2} f(x) \, dx = 5$ and $\int_2^{5} f(x) \, dx = -1$, find $\int_0^{5} 3f(x) \, dx$. [3 marks]