Practice worksheet | Integration

Antiderivatives and constants

Name: _____ Date: _____

6 questions | 18 marks

1. Find $\int 4x\,dx$. [3 marks]

2. Find $\int (9x^2 + 2)\,dx$. [3 marks]

3. Find $\int (x^3 - 5x)\,dx$. [3 marks]

4. Find $\int 7\,dx$ and explain the variable in the answer. [3 marks]

5. A student claims $3x^2$ is an antiderivative of $3x$. Check and correct the claim. [3 marks]

6. For $f(x) = 2x + 1$, give two different antiderivatives and explain their relationship. [3 marks]