Practice worksheet | Integration techniques and applications

Simple partial fractions

Name: _____ Date: _____

6 questions | 12 marks

1. Integrate $\frac{1}{x(x+1)}$. [2 marks]

2. Integrate $\frac{2}{x^2-4}$. [2 marks]

3. Integrate $\frac{5x+1}{(x-1)(x+1)}$. [2 marks]

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4. Integrate $\frac{2x+3}{(x+1)^2}$. [2 marks]

5. Integrate $\frac{x^2+1}{x^2-1}$. [2 marks]

6. Evaluate $\int_1^2 \frac{1}{x(x+1)}\,dx$. [2 marks]