Practice worksheet | Integration techniques and applications

Simple partial fractions

Name: _____ Date: _____

6 questions | 12 marks

1. Integrate $1/[x(x+1)]$. [2 marks]

2. Integrate $2/(x^2-4)$. [2 marks]

3. Integrate $(5x+1)/[(x-1)(x+1)]$. [2 marks]

4. Integrate $(2x+3)/(x+1)^2$. [2 marks]

5. Integrate $(x^2+1)/(x^2-1)$. [2 marks]

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