Practice worksheet | Integration techniques and applications

Integration by parts

Name: _____ Date: _____

6 questions | 12 marks

1. Find $\int x\cos x\,dx$. [2 marks]

2. Find $\int x\sin 2x\,dx$. [2 marks]

3. Find $\int x^2e^x\,dx$. [2 marks]

4. Find $\int x\ln x\,dx$ for x>0. [2 marks]

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

6. Find $\int \arctan x\,dx$. [2 marks]