Practice worksheet | Integration

Areas between curves

Name: _____ Date: _____

6 questions | 18 marks

1. Find the bounded area between $y = x$ and $y = x^2$. [3 marks]

2. Find the bounded area between $y = 4$ and $y = x^2$. [3 marks]

3. Find the area between $y = 3x$ and $y = x$ on $[1, 3]$. [3 marks]

4. Find the bounded area between $y = 3x$ and $y = x^2$. [3 marks]

5. Find the area between $y = x$ and $y = -x$ on $[-1, 1]$. [3 marks]

6. Explain why $\int_0^2 (x^2 - 2x)\,dx$ is not the geometric area between $y = x^2$ and $y = 2x$. [3 marks]