Practice worksheet | Integration techniques and applications

Areas

Name: _____ Date: _____

6 questions | 12 marks

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

2. Find the area under $y = 4 - x^2$ above the x axis. [2 marks]

3. Find the area between $y = |x|$ and the axis on $[-1, 1]$. [2 marks]

4. Find the area between $y = x$ and $y = \sin x$ on $[0, \pi]$. [2 marks]

5. Find area between $x = y^2$ and $x = 4$ for $0 \le y \le 2$. [2 marks]

6. A student reports area zero between $y = x^3$ and the x axis on $[-1, 1]$. Correct the result. [2 marks]