

Group Exam 1

Name: _____

Math 142, 10:20AM

Name of group member: _____

Professor Johnson

Name of group member: _____

Problem 1: Find the number c such that the area between the curves $y = -x^2 + c^2$ and $y = x^2 - c^2$ is 576.

Signature line: _____

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Problem 2: Calculate the integral. $\int_0^3 |x^2 - 4| dx$

Signature line: _____

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Problem 3: Calculate the integral.

$$\int_1^4 \frac{\sqrt{1 + \frac{1}{x}}}{x^2} dx$$

Signature line: _____