

Calculus II - Fall 2014 - Mr. Clontz - Quiz 09
Fill in the circle with the correct answer for each of the following problems.

Name: _____ 9am / 10am

1. (10 points) Determine if $\int_{-\infty}^0 3x^2 e^{x^3} dx$ converges or diverges.

- ☐ converges
☐ diverges

2. (10 points) Determine if $\int_{-1}^1 \frac{2}{3\sqrt[3]{x}} dx$ converges or diverges.

- ☐ converges
☐ diverges

3. (10 points) Find the area enclosed by $x = 2y - y^2$ and $x = y^2 - 4y$.

- ☐ -3
☐ 3
☐ 6
☐ 9
☐ None of these