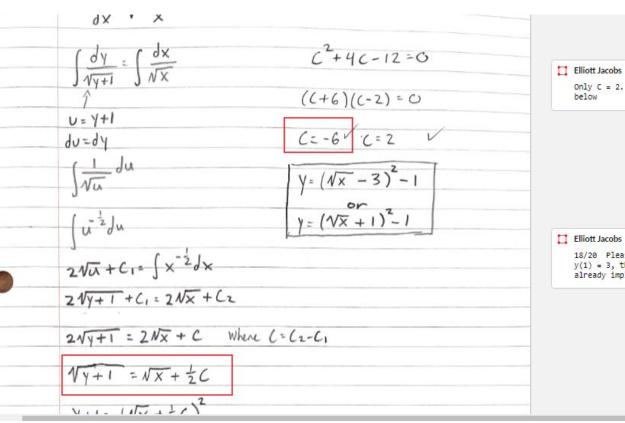
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Only C = 2. See comment

18/20 Please note that if y(1) = 3, then this equation already implies that C = 2

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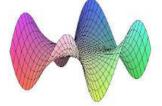
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• 2. Module 2 - Partial derivatives and double integrals

• 3. Module 3 - Double and triple integrals

• 4. Module 4 - Max-min problems



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Assignments

<u>Grades</u>

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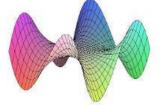
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Assignments

Grades

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Pages Modules

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Assignment 2

Available until Sep 23 at 11:59pm | Due Sep 10 at 9pm | -/100 pts

Assignment 3

Available until Sep 17 at 11:59pm | Due Sep 13 at 9pm | -/100 pts

Assignment 4

Available until Sep 19 at 11:59pm $\,\mid\,$ Due Sep 17 at 9pm $\,\mid\,$ -/100 pts

Exam 1

12

Not available until Sep 21 at 5:00pm | Due Sep 21 at 5:50pm | -/100 pts

Assignment 5

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Grades

People

Pages

Modules

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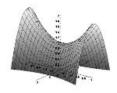
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You may begin this assignment after the second day of class. Click here: Assignment 1 👲

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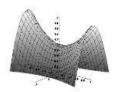
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Assignment 1. Spheres and Other Surfaces

Read 12.1 and 12.6

You should be able to do the following problems: Section 12.1/Problems 51 - 64 Section 12.6/Problems 1 - 44 Hand in the following problems:

1. The following equation describes a sphere. Find the radius and the coordinates of the center.

$$x^{2} + y^{2} + z^{2} = 2(x + y + z) + 1$$

- 2. A particular sphere with center (-3,2,2) is tangent to both the xy-plane and the xz-plane. It intersects the xy-plane at the point (-3,2,0). Find the equation of this sphere.
- **3.** Suppose (0,0,0) and (0,0,-4) are the endpoints of the diameter of a sphere. Find the equation of this sphere.
- 4. Find the equation of the sphere centered around (0,0,4) if the sphere passes through the origin.

Sketch each of the following surfaces

5.
$$z = \sqrt{1 - x^2 - y^2}$$

6.
$$z = 4 - 2x - y^2$$

7.
$$z = 1 - y^2$$

$$8. z = 4 - x - y$$

9.
$$z = 4 - x^2 - y^2$$

10.
$$x^2 + z^2 = 16$$

WIA 243 Calculus III Assignment 1. Spheres and Outer Surjace

Read 12.1 and 12.6

You should be able to do the following problems:

Section 12.1/Problems 51 - 64 Section 12.6/Problems 1 - 44

Hand in the following problems:

 The following equation describes a sphere. Find the radius and the coordinates of the center.

$$x^{2} + y^{2} + z^{2} = 2(x + y + z) + 1$$

- A particular sphere with center (-3,2,2) is tangent to both the xy-plane and the xz-plane. It intersects the xy-plane at the point (-3,2,0). Find the equation of this sphere.
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10 3° ± 2° = 16

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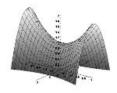
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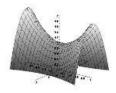
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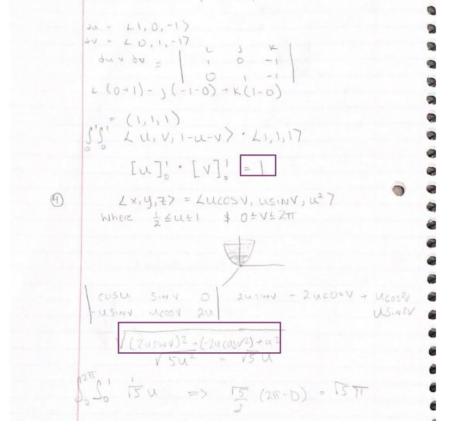
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Audrey Buehler

15/20 Dot product is where the terms are all added together, the correct term to integrate is sqrt(3)!

Audrey Buehler

15/20 The correct term inside of the integral is usqrt(1+4u^2)!