











Grades

jwright19@lamar.edu (Sign out)

My Assignments Home Communication

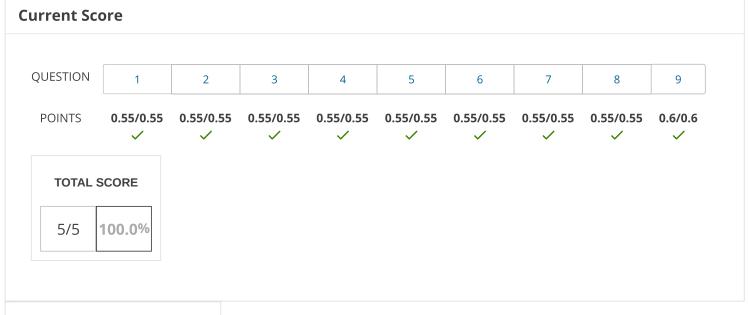
Calendar

My eBooks

← MATH 2415, section 48F, Summer 1 2022

11.6 Homework - Surfaces in Space (Homework)

INSTRUCTOR Jose Vega Guzman Lamar University, TX



Due Date

SAT, JUN 11, 2022

11:59 PM CDT



Assignment Submission & Scoring

Assignment Submission

For this assignment, you submit answers by question parts. The number of submissions remaining for each question part only changes if you submit or change the answer.

Assignment Scoring

Your last submission is used for your score.

1. [0.55/0.55 Points]

DETAILS

PREVIOUS ANSWERS

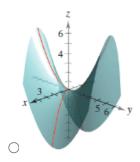
LARCALCET7 11.6.005.

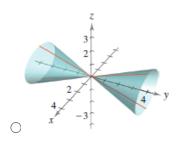
MY NOTES

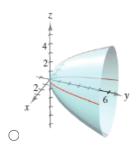
ASK YOUR TEACHER

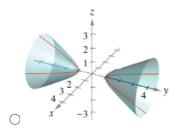
Match the equation with its graph.

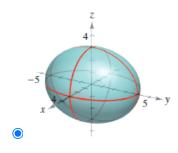
$$\frac{x^2}{9} + \frac{y^2}{16} + \frac{z^2}{9} = 1$$

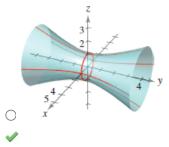












Need Help?

Read It

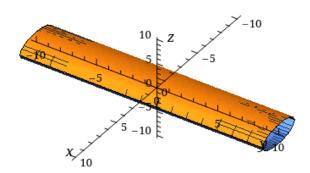


Describe the surface.

$$y^2 + z = 4$$

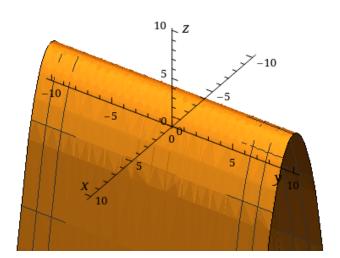
The $x \checkmark$ -coordinate is missing so it is a $\overline{\text{parabolic}} \checkmark \checkmark$ cylinder with the rulings parallel to the $x \checkmark \checkmark$ -axis. The generating curve is a $\overline{\text{parabola}} \checkmark \checkmark$.

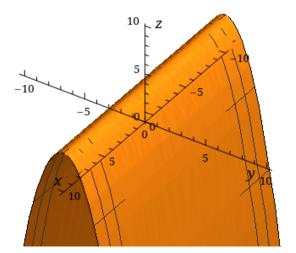
Sketch the surface.

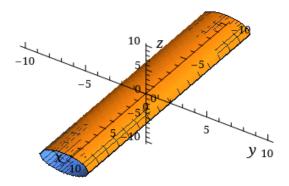


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Need Help? Read It

3. [0.55/0.55 Points]

DETAILS

PREVIOUS ANSWERS

LARCALCET7 11.6.017.

MY NOTES

ASK YOUR TEACHER

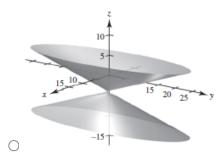
Classify the quadric surface.

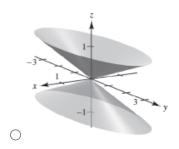
$$16x^2 - y^2 + 16z^2 = 4$$

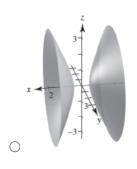
- hyperboloid of two sheets
- O hyperbolic paraboloid
- O ellipsoid
- hyperboloid of one sheet
- O elliptic cone

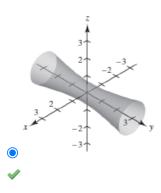
•

Sketch the quadric surface. Use a computer algebra system to confirm your sketch.









Need Help?

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Watch It



Classify the quadric surface.

$$x^2 + \frac{y^2}{4} + z^2 = 1$$

hyperbolic paraboloid

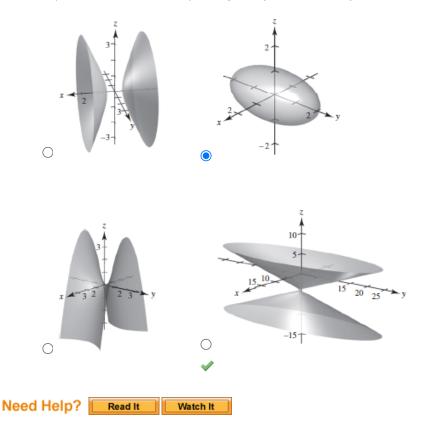
ellipsoid

elliptic cone

hyperboloid of one sheet

hyperboloid of two sheets

Sketch the quadric surface. Use a computer algebra system to confirm your sketch.



5. [0.55/0.55 Points]

DETAILS

PREVIOUS ANSWERS

LARCALCET7 11.6.021.

MY NOTES

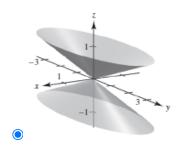
ASK YOUR TEACHER

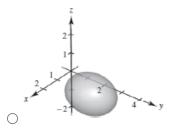
Classify the quadric surface.

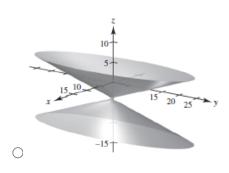
$$z^2 = x^2 + \frac{y^2}{9}$$

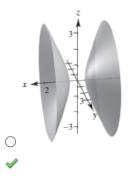
- ellipsoid
- elliptic cone
- O elliptic paraboloid
- O hyperboloid of two sheets
- O hyperboloid of one sheet

Sketch the quadric surface. Use a computer algebra system to confirm your sketch.





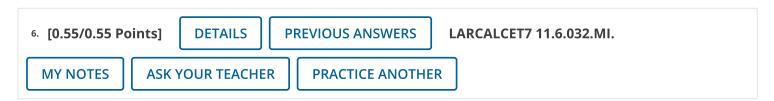




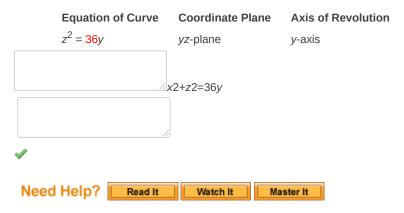
Need Help?

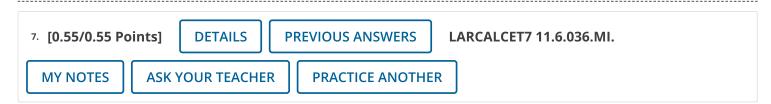
Read It

Watch It

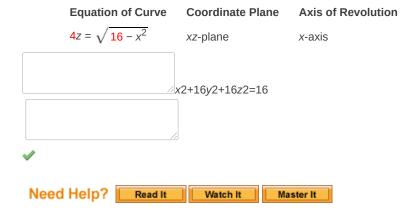


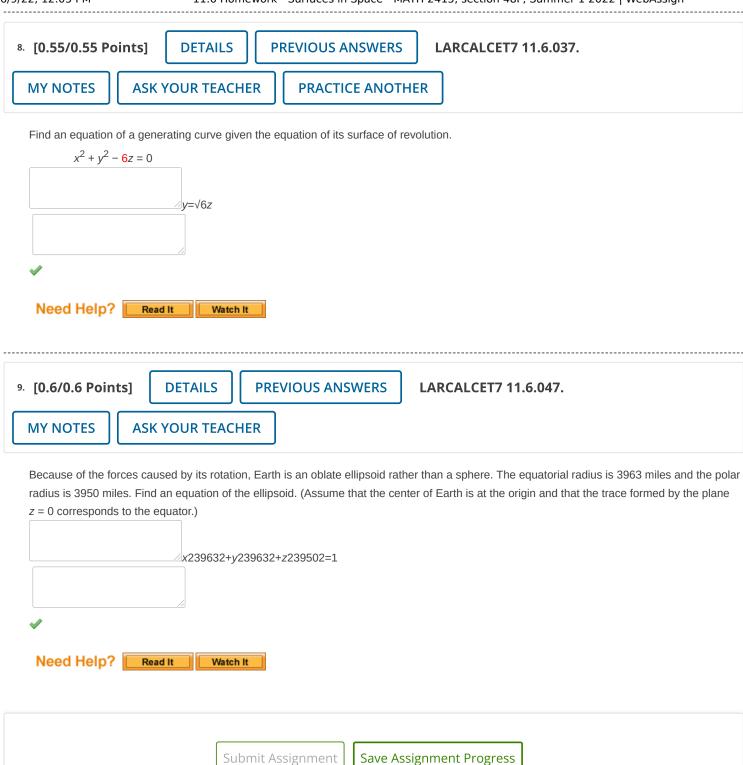
Find an equation for the surface of revolution formed by revolving the curve in the indicated coordinate plane about the given axis.





Find an equation for the surface of revolution formed by revolving the curve in the indicated coordinate plane about the given axis.





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