← MA2009, section GRUPO4, Fall 2019

Aula Invertida Superficies Cuadráticas (Homework)

INSTRUCTOR
Luz Maria Gonzalez
Tecnologico de Monterrey, Mexico

Current Score

QUESTION	1	2	3	4	5	6	7	8	9	10
POINTS	2/2 ✓	2/2 ✓	2/2 ✓	1/1 ✓	1/1 ✓	1/1 ✓	1/1 ✓	1/1 ✓	1/1 ✓	2/2 ✓

TOTAL

14/14	100.0%

Due Date

Past Due

AGO. 31 11:59 P. M.

Request Extension

Assignment Submission & Scoring

Assignment Submission

For this assignment, you submit answers by questions.

Assignment Scoring

Your best submission for each entire question is used for your score.

The due date for this assignment has passed.

Your work can be viewed below, but no changes can be made.

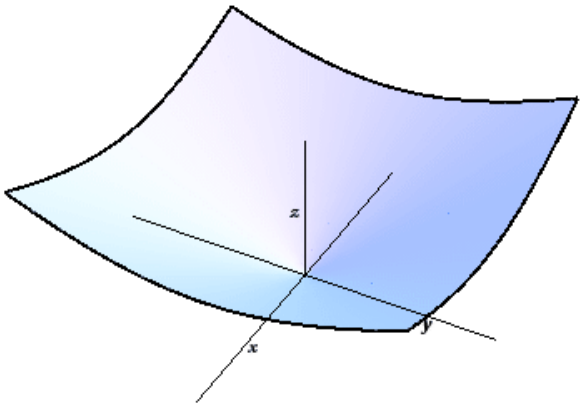
Important! Before you view the answer key, decide whether or not you plan to request an extension. Your Instructor may not grant you an extension if you have viewed the answer key. Automatic extensions are not granted if you have viewed the answer key.

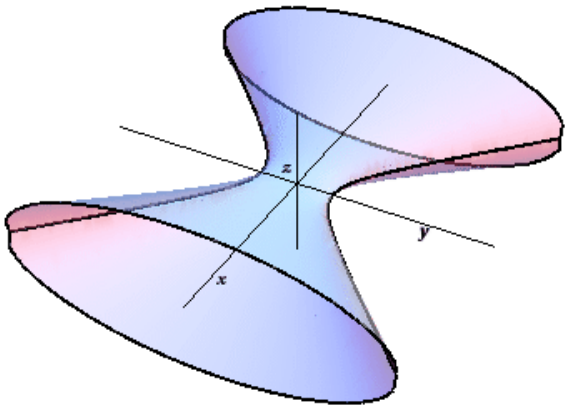
Request Extension | View Key

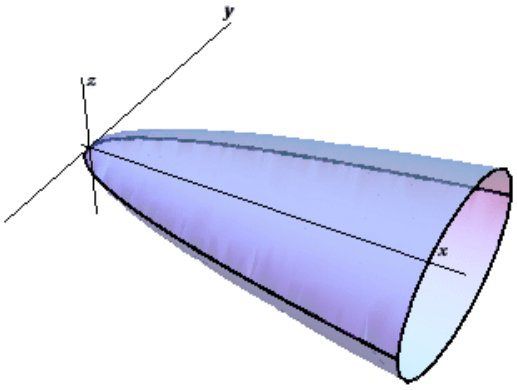
1. **2/2 points** **Previous Answers** SCalcET8M 12.6.011. 1/6 Submissions Used **My Notes** **Ask Your Teacher**

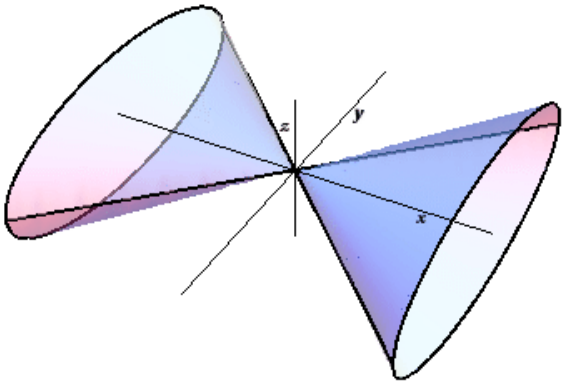
Use traces to sketch the surface.

$x^2 = y^2 + 7z^2$









Identify the surface.

- (•) elliptic cone ✓
- ( ) parabolic cylinder
- ( ) hyperboloid of two sheets
- ( ) elliptic paraboloid
- ( ) hyperboloid of one sheet
- ( ) ellipsoid
- ( ) elliptic cylinder
- ( ) hyperbolic paraboloid

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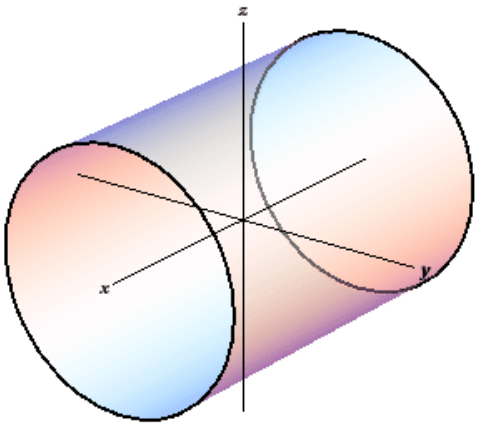
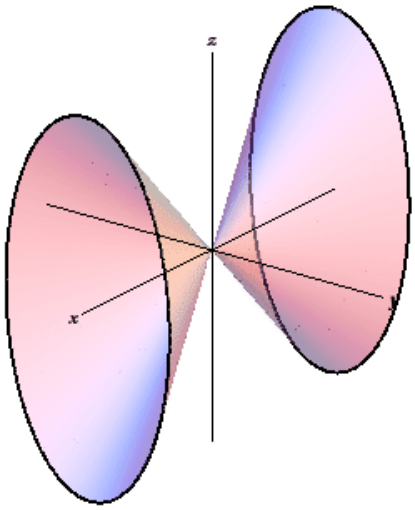
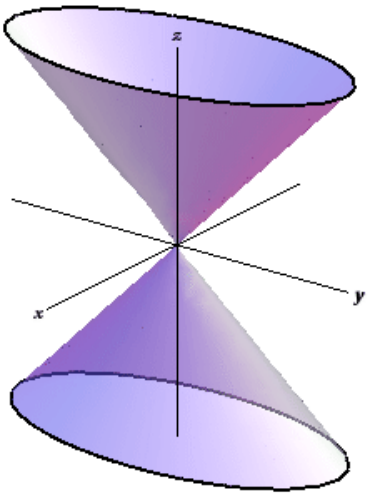
2. **2/2 points** **Previous Answers** SCalcET8M 12.6.013. 2/6 Submissions Used **My Notes** **Ask Your Teacher**

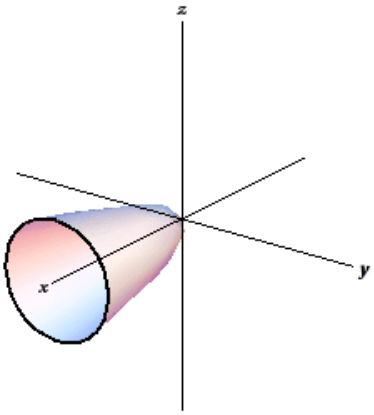
Use traces to sketch the surface.

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









Identify the surface.

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

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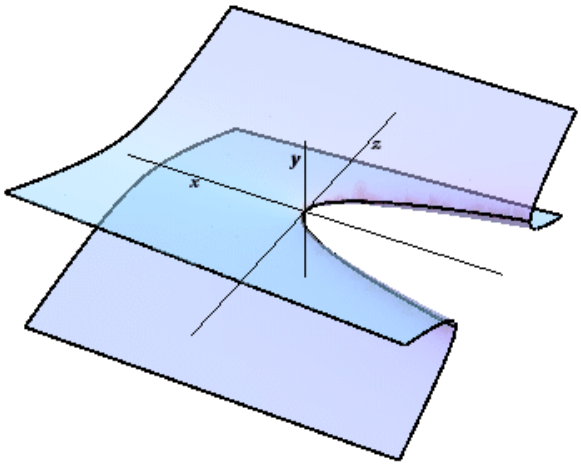
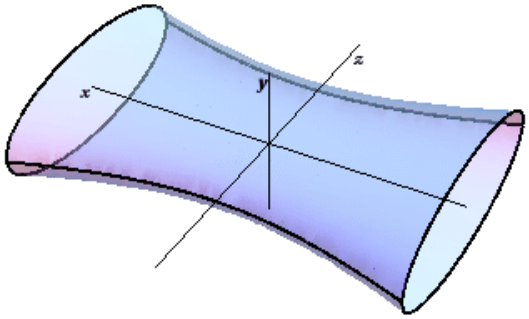
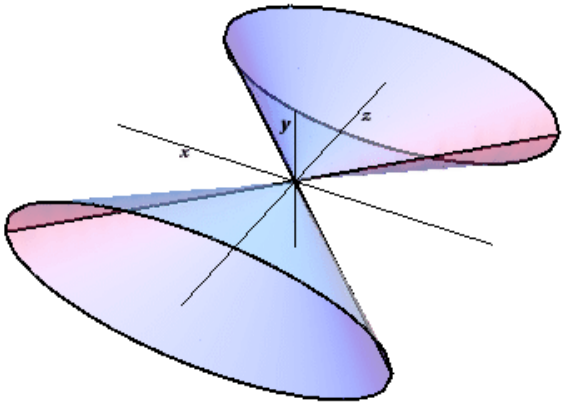
3. **2/2 points** **Previous Answers** SCalcET8M 12.6.020. 2/6 Submissions Used **My Notes** **Ask Your Teacher**

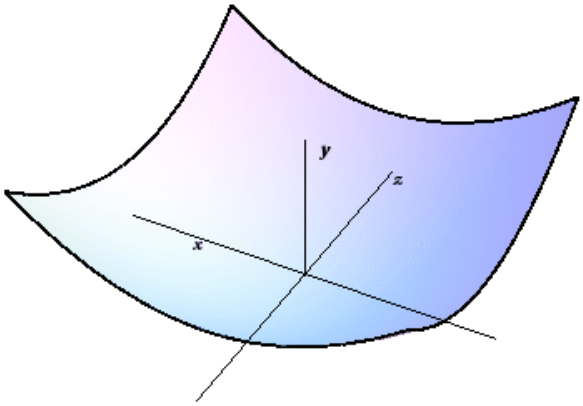
Use traces to sketch the surface.

$x = 2y^2 - 2z^2$









Identify the surface.

- elliptic cone
- ellipsoid
- parabolic cylinder
- hyperboloid of two sheets
- **hyperbolic paraboloid** ✓
- elliptic paraboloid
- hyperboloid of one sheet
- elliptic cylinder

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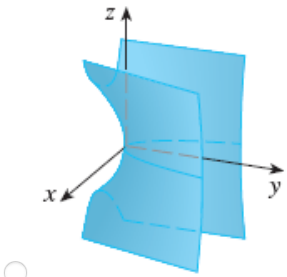
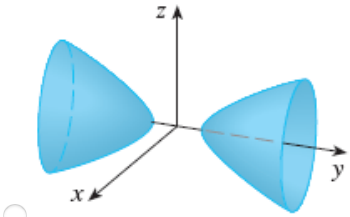
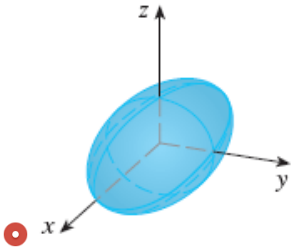
4. **1/1 points** **Previous Answers** SCalcET8M 12.6.021. 1/6 Submissions Used **My Notes** **Ask Your Teacher**

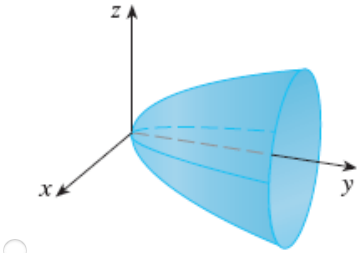
Match the equation with its graph.

$x^2 + 4y^2 + 9z^2 = 1$









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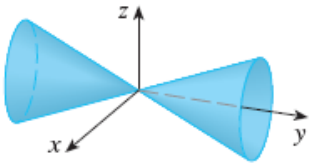
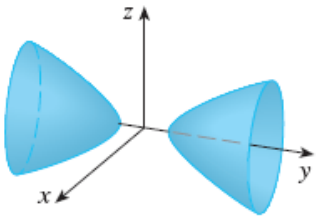
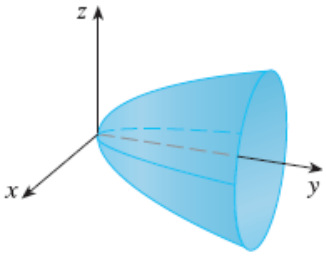
5. **1/1 points** **Previous Answers** SCalcET8M 12.6.022. 1/6 Submissions Used **My Notes** **Ask Your Teacher**

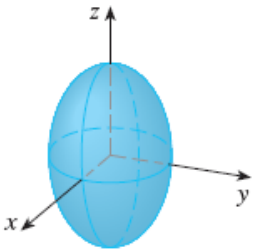
Match the equation with its graph.

$9x^2 + 4y^2 + z^2 = 1$









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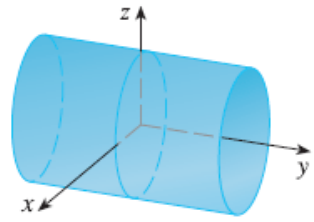
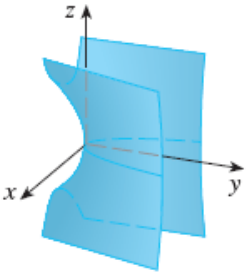
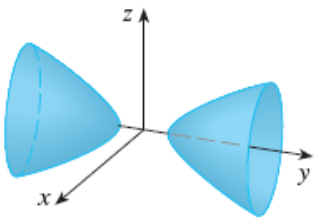
6. **1/1 points** **Previous Answers** SCalcET8M 12.6.023. 1/6 Submissions Used **My Notes** **Ask Your Teacher**

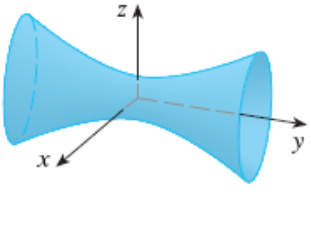
Match the equation with its graph.

$x^2 - y^2 + z^2 = 1$









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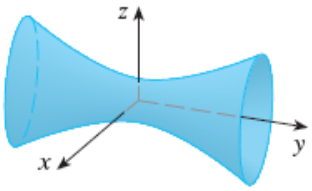
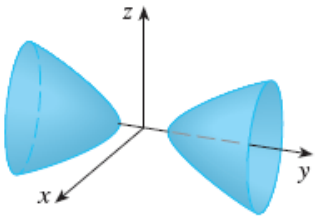
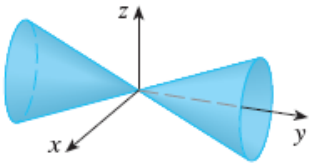
7. **1/1 points** **Previous Answers** SCalcET8M 12.6.024. 1/6 Submissions Used **My Notes** **Ask Your Teacher**

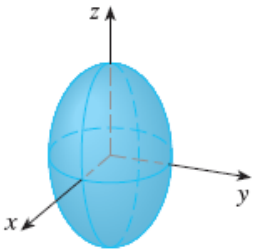
Match the equation with its graph.

$-x^2 + y^2 - z^2 = 1$









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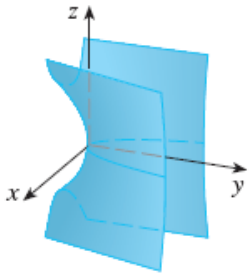
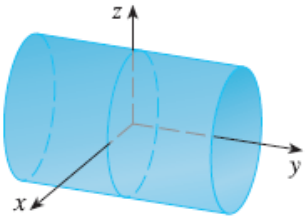
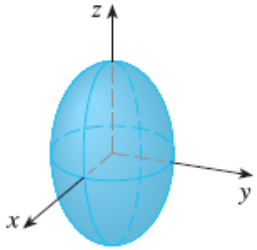
8. **1/1 points** **Previous Answers** SCalcET8M 12.6.025. 2/6 Submissions Used **My Notes** **Ask Your Teacher**

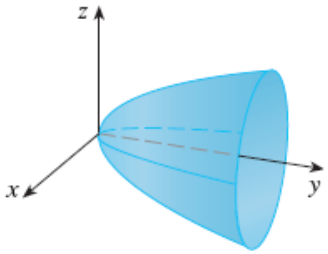
Match the equation with its graph.

$y = 2x^2 + z^2$









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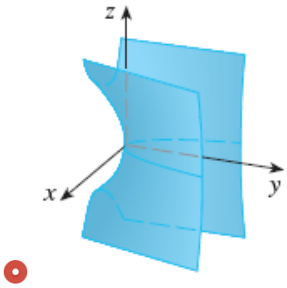
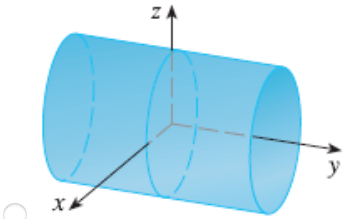
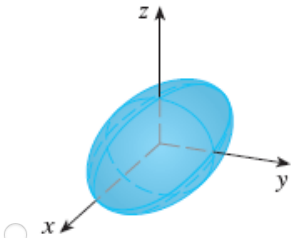
9. **1/1 points** **Previous Answers** SCalcET8M 12.6.028. 1/6 Submissions Used **My Notes** **Ask Your Teacher**

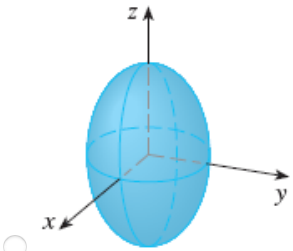
Match the equation with its graph.

$y = x^2 - z^2$









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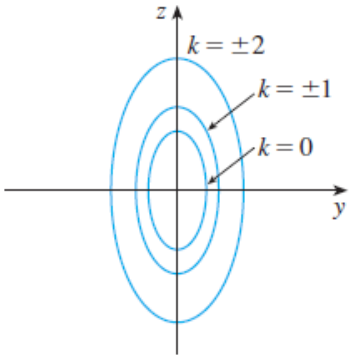
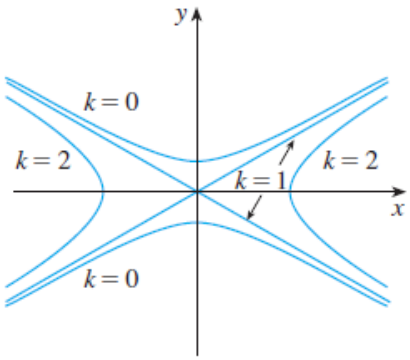
10. **2/2 points** **Previous Answers** SCalcET8M 12.6.030. 2/6 Submissions Used **My Notes** **Ask Your Teacher**

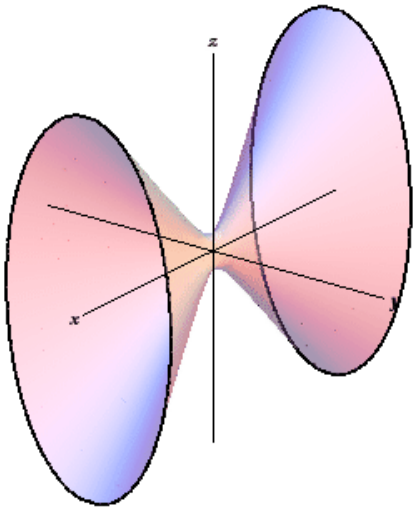
Sketch a quadric surface that could have the traces shown.

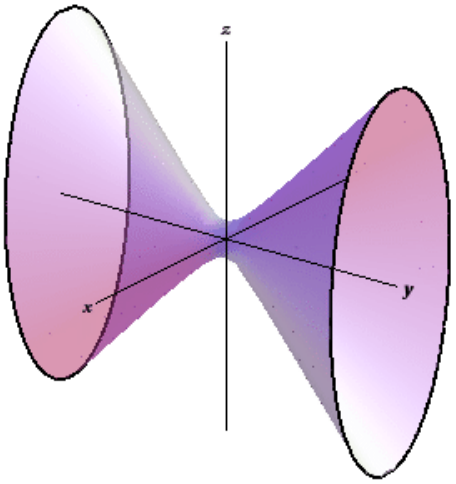
Traces in $x = k$

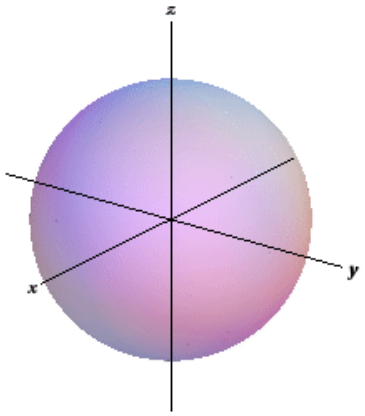


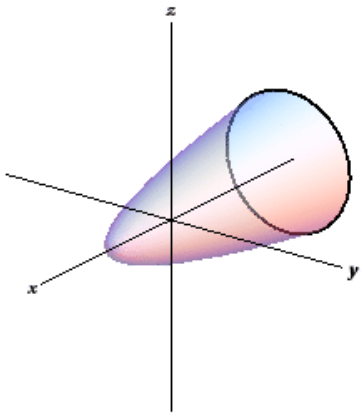
Traces in $z = k$











Identify a quadric surface that could have the traces shown.

- ○ elliptic cylinder
- ○ hyperbolic paraboloid
- ○ elliptic cone
- ○ parabolic cylinder
- ○ ellipsoid
- ○ elliptic paraboloid
- ○ hyperboloid of two sheets
- ● hyperboloid of one sheet ✓

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