Please	PRINT	vour	name
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No calculators, cell phones, computers, notes, etc.

Circle your answer. Make your work correct, complete and coherent.

Please take a picture of your quiz (for your records) just before you turn the quiz in. I will e-mail your grade and my comments to you. I will keep your quiz.

The quiz is worth 5 points. The solutions will be posted on my website later today.

Quiz 3, February 15, 2023

Describe and graph $x^2 + y^2 - z^2 = 1$ in three-space. What is the name of this object?

 $X^2+y^2-z^2=1$ When X=0 the equation is a hyperbola $y^2-z^2=1$ When y=0 the equation is a hyperbola $X^2-z^2=1$ When y=0 the equation is a hyperbola $X^2-z^2=1$

When 7=0 the egration is X2+y2=1 so the graph is a circle



The soubare is the hyper boloid of one stret. Drow the hyperbola $y^2-z^2=1$ in the y-z Plane, Rotate this hyperbola about the z-axis