

Please PRINT your name \_\_\_\_\_

**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 1, August 25, 2022**

Graph, name, and describe the set of points in 3-space whose coordinates satisfy both of the equations

$$x^2 + y^2 = 4 \quad \text{and} \quad z = y.$$

**Answer:** The points in 3-space which satisfy

$$x^2 + y^2 = 4 \quad \text{and} \quad z = y$$

form the ellipse which is the intersection of the cylinder  $x^2 + y^2 = 4$  and the plane  $z = y$ .

