

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, January 18, 2022

Describe the circle of radius 2 centered at $(0, 2, 0)$ and lying in the plane $y = 2$ using either a single equation or a pair of equations.

Answer: The point (x, y, z) is on the circle provided $y = 2$ and the distance from (x, y, z) to $(0, 2, 0)$ is 2. The circle is the set of all points which satisfy BOTH

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