

Name:
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MAC 2313.6717
Cyr

Quiz 2

You must show all work to receive full credit!!

Problem 1. (4 points) Find a vector equation for the line segment from the point $(-3, 1, 0)$ to the point $(-1, 5, 6)$.

Problem 2. (5 points) (6 points) Consider the quadric surface given by the equation

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

- (a) Identify the type of (two-dimensional) curve given by the traces $x = 0, z = 0$, and $y = 1$.
- (b) Use the information from part (a) to classify the surface.
- (c) Sketch a graph of the surface.