

Name:
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MAC 2313.9722
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 $(-2, 8, 3)$ to the point $(1, -4, 8)$.

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

$$9y^2 + 4z^2 - x^2 = 36.$$

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