

due mendas

Name:

Quiz 9

- 1- A designer proposes a parabolic satellite dish 7 feet in diameter and 21 inches deep.
- a. What is the equation for the cross section of the parabolic dish? (Give enough explanation along with the graph). (4 pts.)

b. What is the focal length? (1 pt.)

- 2- Given a point $P = (18, 9)$ on a parabola of the form $y = ax^2$, find the equation of the parabola. Then, find the coordinate of the vertex and the focus. Specify the vertex is a maximum or minimum and explain your reason (5 pts.)