

## APPLICATION PROBLEM 2 (DUE 09/04)

NAME:

A construction company has a job to knock down the old mall. They have a crane to help them do this. The mall roof is given by the equation  $.5x + y + 5z = 1$ . The crane is located at the point  $(0, 0, 0)$ .

1) What is the distance between the roof and the crane?

2) Is the crane located above or below the roof?

3) What would need to change for the crane to be ten feet away from the roof?