

**READ ME:** Merely finding the answer to a problem is not enough to receive full credit; you must show how you arrived at that answer.

1) Use Mathematica or your favorite program to graph the following surfaces, then identify them using the catalog of quadric surfaces.

a) (1 point)  $x^2 - 10x + 7y^2 - z = 0$ .

b) (2 points)  $2x^2 - x - 5y^2 + 4y - z^2 = 15$