

Mathematics 21a Fall 2006
In class problems. Oct. 12

Identify and sketch the quadric surfaces in \mathbb{R}^3 given by the following equations.

(1) $5x^2 + 3y^2 - 4z^2 = 2$

(2) $5x^2 + 3y = 2$

(3) $5x^2 - 3y^2 + 4z^2 = 0$

(4) $5x^2 - 3y^2 - 4z = 0$

(5) $5x^2 - 3y^2 + 4z^2 = -2$

(6) $5x^2 + 3y^2 = 0$

(7) $5x^2 - 3y^2 - 4z^2 = 2$

(8) $5x^2 + 3y^2 - 4z^2 = 2$