

Name: _____ Sort #: _____

Worksheet 4
Surfaces in Space

MATH 2210, Fall 2018

Identify and sketch the given quadric surfaces. State the surface type, it's general form, as well as it's xy , yz , and xz traces.

1. $x^2 + \frac{y^2}{4} + z^2 = 1$

2. $16x^2 - y^2 + 16z^2 = 4$

3. $4x^2 - y^2 - z^2 = 1$

4. $z^2 = x^2 + \frac{y^2}{9}$