Quiz 4 (Problems)

1. Indentify via cross-sections the surface defined by $3^2 - y^2 + 3z^2 + 9 = 0$.

2. Indentify via cross-sections the surface defined by $x = 3y^2 + 5z^2$.

3. Indentify via cross-sections the surface defined by $y = x^2$.

4. Indentify via cross-sections the surface defined by $2y^2 = 3z^2 = 12$.

Quiz 4 (Answers)

1. (Math-252 Quiz 4)

   Circular hyperboloid of two sheets

2. (Math-252 Quiz 4)

   Elliptical paraboloid

3. (Math-252 Quiz 4)

   Parabolic cylinder

4. (Math-252 Quiz 4)

   Elliptical cylinder