For the given quadric surface, describe the effect that changing the value of  $a,\,b$  and c has on the shape of the surface:

- 1. Ellipsoid.
- Cone.
  Elliptic Paraboloid.
- 4. Hyperbolic Paraboloid.
- 5. Hyperboloid of One Sheet.
- 6. Hyperboloid of Two Sheets.