Section 12.1: Additional Problems

- 1. A triangle is formed by these vertices: A(5, 1, 5), B(3, 2, 3), and C(1, 4, 4). Determine if the triangle is an isosceles triangle, a right triangle, both or neither.
- 2. Sketch the graph of the **elliptic cylinder** $\frac{y^2}{4} + \frac{z^2}{25} = 1$ in \Re^3 .
- 3. Find an equation of a sphere that has a diameter with the endpoints of (3, 2, 8) and (7, 12, 22).
- 4. Find an equation of a plane that goes through the points (10, 0, 0), (0, 5, 0) and (0, 0, 20)