- 1. (20 points) Let $u=\langle 1,2,3\rangle$ and $v=\langle -1,0,3\rangle$ be two defined vectors. Compute |2u-3v|.
- 2. (20 points) Find the distance from (2,-1,3) to the yz-plane.
- 3. (20 points) Write the equation of a sphere with center (2, -1, 3) and radius 5.