

Computer Graphics Assignment set 3

1. Assignment for separating axis theorem. Run the overlap test for Oriented bounding box (OBB) for two objects a box $B_{min}(0,0,0)$ and $B_{max}(3,2,4)$ and a tetrahedron $R(2,2,2)$, $S(2, 4, 2)$, $T(3,4,2)$, $U(x,y,z)$, choose x,y,z such that tetrahedron intersects the box. Calculate OBB for tetrahedron, calculate all the necessary axes, calculate all the projections and write down the answer, draw an image.