

Computer Graphics Assignment set 4

1. Given the capsule A: $A_1(0,0,0)$, $A_2(3,3,0)$, $r_A=1$ and capsule B: $B_1(2,x,0)$, $B_2(-x,y,z)$, $r_B = R$. Choose the values x,y,z , and radius R , such that the capsules have an intersection. Write down capsule intersection steps calculated for the example, draw an image, evaluate all the projections, use the table for decisions, write the intermediate results, calculate the contact point, contact normal and the penetration depth.