



Figure X.1: The ray from  $\mathbf{p}$  in direction  $\mathbf{u}$  reaches its closest point to the center  $\mathbf{c}$  of the sphere at  $\mathbf{q}$ . The points  $\mathbf{q}_1$  and  $\mathbf{q}_2$  are the two places where the line intersects the sphere.