Problem

- (a) Give an example of a path $\gamma:[0,\epsilon)\to\mathbb{R}^2$ such that the angle does not exist in 0.
- (b) Prove that the angle $\angle(\gamma, \gamma)$, if it exists, is always 0.
- (c) Prove that if γ is geodesic, then the angle $\angle(\gamma,\gamma)$ always exists.