

## Question

Suppose that a plane curve is parametrized by  $\vec{r}(t) = f(t)\vec{i} + g(t)\vec{j}$ and  $\vec{r}'(3) = \vec{0}$ . What can you conclude about the curve near  $\vec{r}(3)$ ?

- A. The tangent line to the curve is horizontal at  $\vec{r}(3)$ .
- B. The tangent line to the curve is vertical at  $\vec{r}(3)$ .
- C. There is a corner in the curve at  $\vec{r}(3)$ .
- D. There is not enough information to decide.