Quiz 6 (Problems)

1. Using $\mathbf{r}(t) = \langle 4\cos(2t), 4\sin(2t), 6t \rangle$,

   a. Find $\mathbf{T}(t)$

   b. Find $\mathbf{N}(t)$

   c. Find the curvature

Quiz 6 (Answers)

1. (Math-252 Quiz 6)

   a. $\mathbf{T}(t) = \langle -\frac{4}{5}\sin(2t), \frac{4}{5}\cos(2t), \frac{3}{5} \rangle$

   b. $\mathbf{N}(t) = \langle -\cos(2t), \sin(2t), 0 \rangle$

   c. $k = \frac{4}{25}$