Checkpoint: Derivatives of space curves

Suppose that $\mathbf{L}(t)$ is the tangent line to $\mathbf{r}(t) = \langle \cos(\pi t), \sin(\pi t), 2t \rangle$ at the point where $t = 2$. Write the equation for $\mathbf{L}(t)$ so that $\mathbf{L}(2) = \mathbf{r}(2)$.