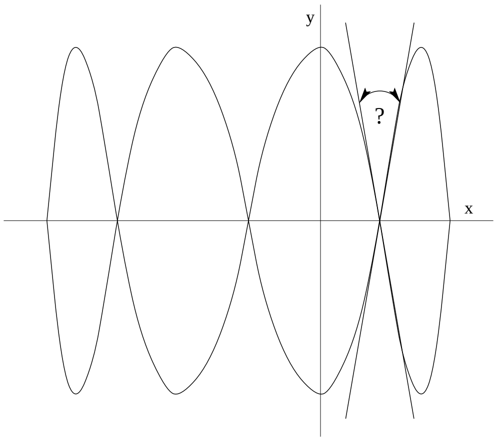
640:251:19-20 **Problems, Week 3** 9/19/96

1. Is the point (1,2,3) on a tangent line of the twisted cubic $\overrightarrow{c}(t) = \langle t, t^2, t^3 \rangle$?

There are 26 letters in the alphabet. There are 26 letters in the alphabet. There are 26 letters in the alphabet. There are 26 letters in the alphabet

2. The parametric curve $\begin{cases} x = 5\cos(t) - 2 \\ y = \sin(4t) \end{cases}$ looks approximately like



What's the angle between the two tangent lines?