Example of an M problem.

7, 8, 9, 10, 11, 12, 13, 14, 15, and 16 Sketch the curve with the given vector equation. Indicate with an arrow the direction in which t increases.

7. $\mathbf{r}(t) = \langle -\cos t, t \rangle$

Solution : We use the command ParametricPlot to sketch the curve.

$$\text{ParametricPlot} \left[\{ -\cos[t], t \}, \{t, 0, 10\} \right]$$