

The red curve is x, blue is y. Some sample points:

$$\begin{array}{c|cccc} t & x & y \\ \hline -2 & 4 & -2 \\ -\sqrt{3} & & 0 \\ -1 & & 2 \\ 0 & 0 & 0 \\ 1 & & -2 \\ \sqrt{3} & & 0 \\ 2 & 4 & 2 \\ \end{array}$$

