5. Graph and label the level sets \( f = 0, \ f = 1, \) and \( f = -1 \) for \( f(x, y) = \frac{x}{y}. \)

6. Sketch the curve parameterized by \( \mathbf{r}(t) = \cos t \mathbf{i} + t \mathbf{j} + \sin t \mathbf{k} \) in 3-space.

If I look down the \( y \)-axis I see the circle \( x = \cos t \) but \( y \) is growing as \( t \) increases, so the graph is a helix.