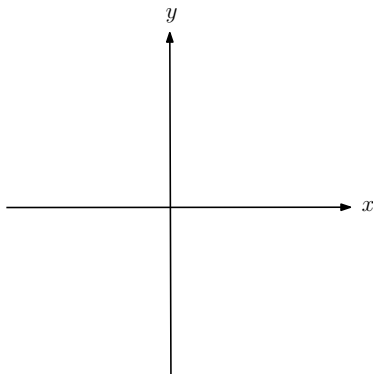


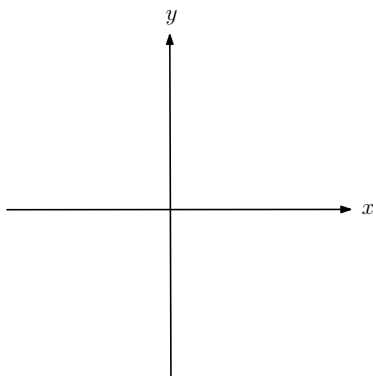
## Reciprocals

Given that  $f(x) = \frac{1}{x}$ ,

1. sketch the graph of  $f(x)$ .



2. Sketch the graph of  $f(x - 1)$ , giving the equations of the asymptotes and any intersections of the axes.



3. Sketch the graph of  $-f(x - 1)$ , giving the equations of the asymptotes and any intersection of the axes.

