

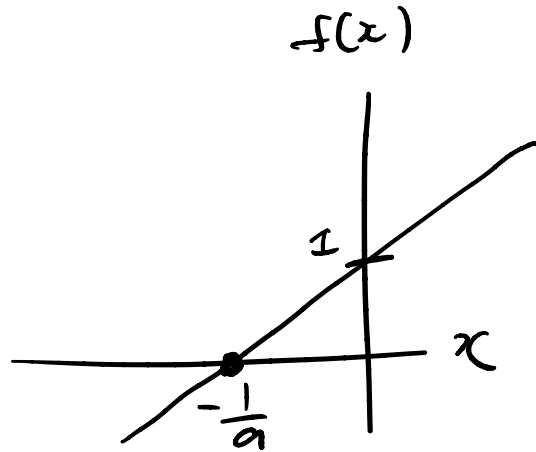
$$\dot{x} = ax + 1$$

a)

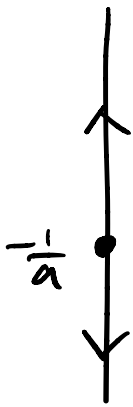
$$f(x) = ax + 1$$

$$ax + 1 = 0$$

$$x = -\frac{1}{a}$$



$$\therefore a \in (-\infty, 0)$$



b) i)



$$a = \{y \mid y < 0\}$$

