HOMEWORK 2

due date: March 6, 2018

a) Draw the set

$$M = \{ (x, y) \in \mathbb{R}^2 : x^2 + y^2 \le 1 \& x < 0 \}.$$

Decide, whether M is open resp. closed.

b) Draw the sets $\operatorname{Int} M, \overline{M}, \operatorname{bd}(M)$ (each in a separate picture) and then write these sets using symbols

$$Int(M) = \overline{M} = bd(M) = bd(M)$$