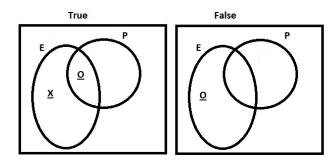
## 1. The solution looks like:



- 2. (a) True
  - (b) True
  - (c) False, a = -2
  - (d) False, a = -1, b = 0
  - (e) True
  - (f) False,  $a = -2\pi, b = 2\pi$
- 3. (a) Regions 2 and 4
  - (b) Regions 1, 2, 4, 6, 3, and 5
  - (c) Regions 1, 6, 3, and 5
  - (d) Regions 7 and 8
  - (e) Regions 8, 1, 2, and 3
  - (f) Regions 5 and 6
  - (g) "C programs that did not pass any test"
  - (h) "programs that are not written in C and passed only test 2"