## AAU - Business Math I (MTH 111/3) - Fall 2010

1. Find the following sets on the Venn diagrams below:
(a)

2. Depict the following intervals on real lines below:

3. Find intercept and union of the following intervals:
(a) $A=(-2,8] ; B=(0,11]$
(b) $C=(-\infty, 2] ; D=(0,5] ; E=(2, \infty)$
4. Three goddesses were sitting in an old Indian temple. Their names were Truth (always telling the truth), Lie (always lying) and Wisdom (sometimes lying). A visitor asked the one on the left: "Who is sitting next to you?"
"Truth," she answered.
Then he asked the one in the middle: "Who are you?"
"Wisdom."
Lastly, he asked the one on the right: "Who is your neighbor?"
"Lie," she replied.
And then it became clear who is who.
