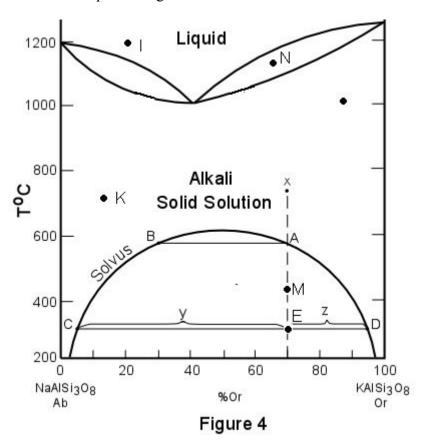
1. Phase diagram reading

Example 1

Consider this phase diagram:



Questions:

1.	Write the species:
2.	This phase diagram cross-section describes the (choice: unary binary ternary
	quaternary) system.
3.	Describe axis:
	Axis x isvalue given in
	Axis y is value given in
	The constant system variable(s) is (are)
4.	How many phases can coexist in phase equilibrium in this system at maxima?
5.	How many phases we can see on this phase diagram cross-section at maxima?
6.	Write all regions (that we can find on this phase diagram cross-section)
	Single-phase regions:
	Two-phase regions:
	Three-phase regions:
	Another regions:
7.	What phases we can find in equilibrium state at conditions given by point
	N

8.	M	
	CE	
	Write some tie-line into phase diagram cross-section, each in different phase field. Describe what happens with the system given by point X when you will slowly cool the system to room temperature (suppose equilibrium at each temperature step).	
11.	Describe what happens with the system given by point I when you cool the system.	
12.	Look the phase diagram cross-section and mark the azeotropic point.	