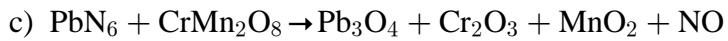
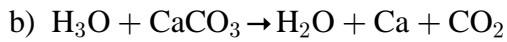
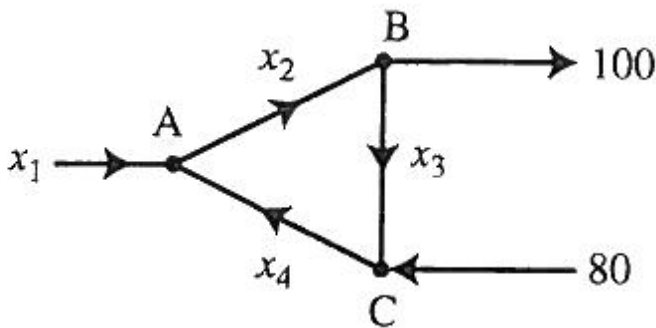


**Math 335  
Practice**

1. Balance the chemical equations:



2. Find the general flow pattern of the network shown in the figure. If all flows are non-negative, what is the smallest possible value for  $x_4$ ?



3. Find the general flow pattern in the figure given below. Which of the paths,  $x_1, \dots, x_5$  can be closed? For those that can, what is the flow on the rest of the network when they are closed?

