

### Quiz #4

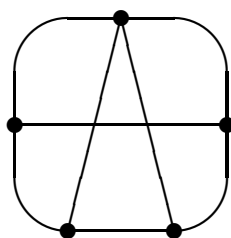
Please show your work and feel free to use the back of the sheet if you need more room.

1 Which of the following things are graphs?

'Twas brillig, and the slithy toves  
 Did gyre and gimble in the wabe;  
 All mimsy were the borogroves,  
 And the mome raths outgrabe.

Maximize  $z = x - y$   
 subject to

$$\begin{aligned} 3x - y &\leq 19 \\ -x + 7y &\geq 10 \\ x + y &= 100 \\ x, y &\geq 0 \end{aligned}$$



Day comes all at once;  
 I get distracted by the rain,  
 the big trucks, the woman  
 in a Lincoln Town Car  
 who leaves her blinker on  
 long after she has merged.  
 I check my rearview mirror  
 to pass her, and behind me  
 the sky is red. How did I  
 not notice morning?

2 Identify the poets.

3 Write down the incidence matrix for the following digraph.

