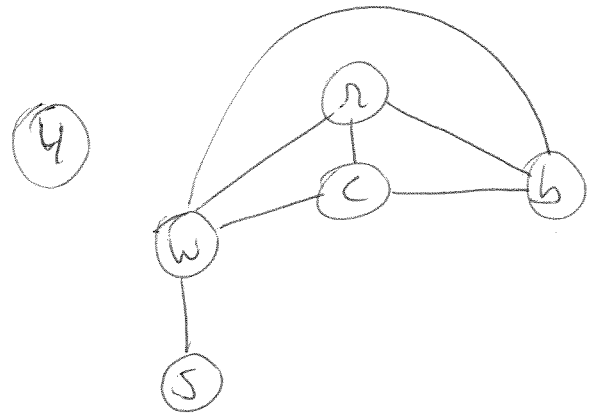
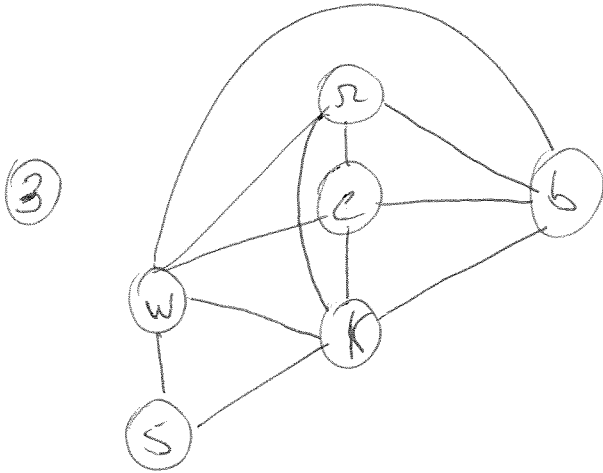
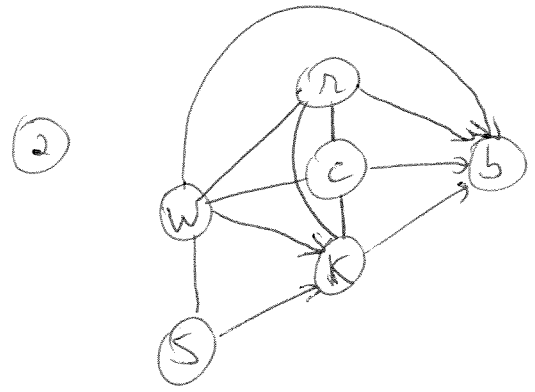
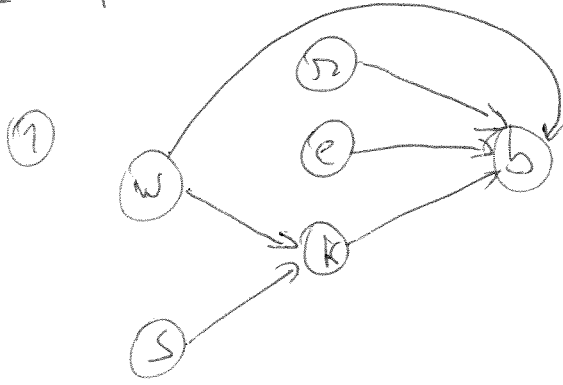
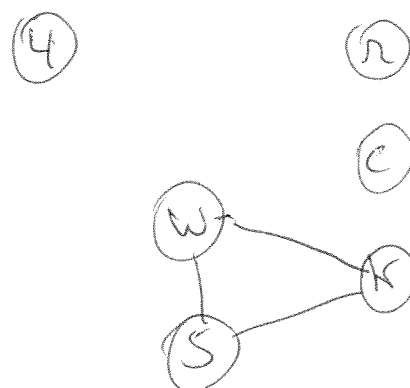
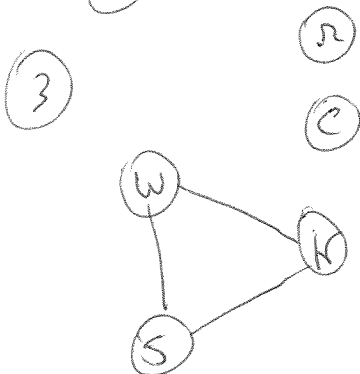
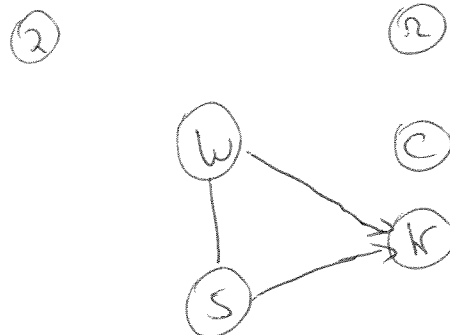
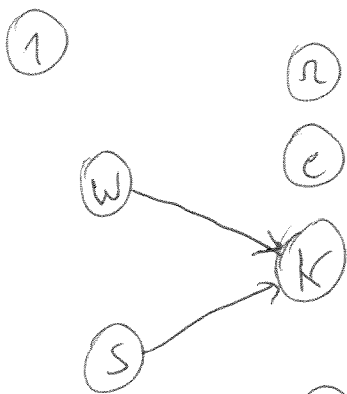


$$s \not\perp b \mid k$$



there is a path between s and b ,
so we cannot prove that $s \not\perp b \mid k$

$$\{r, e\} \perp k$$



so, it is true
that
 $\{r, e\} \perp k$