Quiz 5
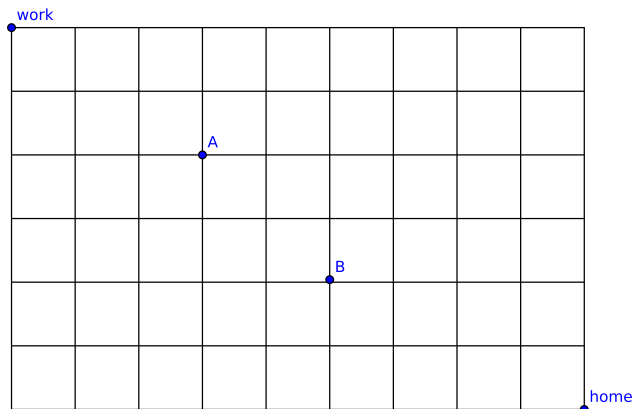
Show all your work to recieve full credit. Use the diagram to answer the questions

Consider the sample space $S = \{$shortest paths from work to home$\}$ and let E be the event "pass thru A" and F the event "pass thru B".   (5 pts. each)

1. Find $Pr(E)$ and $Pr(F)$.

2. Find $Pr(E \cap F)$ and $Pr(F|E)$.

3. If E and F are two events of a sample space which are independent and $Pr(E) = .6$ and $Pr(F) = .5$, then what is $Pr(E \cap F)$?   (5 pts.)