Activity list for the Reliable Construction Co. Project

HW5

		Immediate	optimistic	most likely	pessimistic
Activit	y Activity Description	Predecessors	time	time	time
\boldsymbol{A}	Excavate	_	1	2	3
B	Lay the foundation	\boldsymbol{A}	2	3,5	8
C	Put up the rough wall	B	6	9	18
D	Put up the roof	C	4	5,5	10
E	Install the exterior plumbing Install the interior	C	1	4,5	5
F	plumbing	E	4	4	10
G	Put up the exterior siding	D	5	6,5	11
H	Do the exterior painting	E, G	5	8	17
I	Do the electrical work	C	3	7,5	9
J	Put up the wallboard	F, I	3	9	9
K	Install the flooring	J	4	4	4
L	Do the interior painting	J	1	5,5	7
M	Install the exterior fixtures	H	1	2	3
N	Install the interior fixtures	<i>K</i> , <i>L</i>	5	5,5	9

a. draw the network diagramb. find the minimum completion time of project by using the expected times of activitiesc. find the variance of the project

d. find critical path activities

e. what is the probability to complete the project in 35 weeks?