In Class 5 Project Management OPS 370

Problem 1

Use the table of activities below to answer the following questions:

Activity	Duration	Immediate Predecessors

Р	3	None
Q	5	Р
R	4	Р
S	2	Q,R
Т	6	S

- a. Draw the network diagram for this problem
- b. What are the lengths of the paths through this network?
- c. Which of these paths is the critical path?
- d. Calculate the Early Start, Early Finish, Late Start, and Late Finish times for the activities in this project

Problem 2

Use the table of activities below to answer the following questions:

	Т			
Activity	Optimistic	Most Likely	Pessimistic	Immediate Predecessors
Α	3	4	5	None
В	7	8	9	А
С	6	6	6	В
D	5	5	5	Α
E	2	3	3	C,D

a. Draw the network diagram for this problem.

b. Calculate the expected times and variances for each activity.

c. What are the lengths of the paths through this network?

d. Which of these paths is the critical path?

e. What is the variance of the critical path?