9. PERT calculations yfeeld a project length of 50 weeks with a variance of 16. Within how many weeks would you expect the project to be completed with a probability of 95%, 75% & 40%.

Given: Z value for 95% = 1-65

z value for 75% = 0.69

z value for 40% = -0.25

Project length = 5 TE = 50 weeks

:. stel. deviath = 1/16 = 4 = 16 Valiance

(1) For 951/. , Z = 1.65

$$1.1.65 = \frac{T_S - 50}{4}$$
 1.  $T_S = 56.6$  weeks

For 75%, Z = 0.69 2

$$z = \frac{T_S - T_E}{\sigma}$$

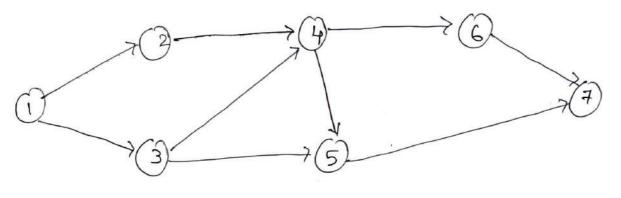
:. 0.69 = Ts-50 :. Ts = 52.76 weels.

(3) \$00 40 /. , Z = -0.25

g. Construct n/w liagram & find expected project duration. what will be the drances of completing a work in 26 day ? The administ of production schedule are so follows:

)					_	11	16	5-71	6-1
Activity	1-2	1-3	2-4	3-4	3-5	4-5	4 ~		1
Activity   To	,	,	ц	2	2	6	2	3	1
16	3	` \	,	1.	4	7	5	5	1
Tm	2	4	6	9					
Jp	3	7	8	12	12	8	14	13	15
J				,				ļ	

\* Feedback Values



1					. 1		1
Activity	to	tm	tp	te	0	$\sim$	
1-2	ı	2	3	2	0 · 33	0.11	variance along c.p=5.65
[1-3	1	4	7	4	1	1	deviate -1 = 12.65
2-4	4	6	8	6	0166	0.44	= 2.376
[3-4]	5	9	13	9	1.33	1.77	TE = 26 days
3-5	2	4	12	5	1.67	2.77	Z = 0
14-5	6	7	8	7	0.33	0.1)	= 1 mb = 50 /.
4-6	2	5	14	6	2	4	- 1.000 - 50 /.
5-7	3	5	13	6	1.67	2.77	
6 - 7	t	2	15	4 /		5.44	