Problem 1

Port A.1:

0	8 9	23 24	44 45	49 30	56
PI	S Po	S 82	5 P3	s Py	

Port A.2:

			83 71	3" 36	
P.	C 0	C P.	C 80	c 0	
	12 ,	3 3 4	1	( 12	

Port A.3:

	8 7	23 24	30 51 35 36	56
PL	c Po	c Ry	c P3 c P3	
			3 . 2	1

Port A. 4 , 9=6ms

,	P	1 P2	P3	PL	100	Pac P2	c Po CP2	C 82
			13	14	1	1 5 12	s Post 2	

Port B) wrothing time for

$$A.\frac{1}{2}$$
 $A.\frac{1}{2}$ 
 $A.\frac$ 

$$R_{19} = \frac{116}{5}$$
 $R_{19} = 21 \text{ ms}$ 
 $R_{21} = 0 \text{ ms}$ 
 $R_{22} = 36 - 2 = 34 \text{ ms}$ 
 $R_{32} = 9 - 4 = 5 \text{ ms}$ 
 $R_{43} = 14 - 6 = 8 \text{ ms}$ 
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A.3	Aig
Po = 9ms	Po = 27+11=38ms
PI = Oms	P1 = 7+27 = 34ms
P2 = 36 - 2 = 34m s	P2 = 12+23+4+1=40ms
P3 = 31 - 4 = 27ms	P3 = 21-4=17ms
Pu= 24-6= 18ms	Pu = 26-6=20ms
Total =	Total =
overege worthing = 88 = 1716m	29.8 morting = 149 = 29.8
tine	time

## Port C Average Tumoround time for [Exit Time - Arrival Time

$$\frac{1000}{2} = \frac{140}{5} = \frac{28 \text{m/s}}{5}$$

Porto 20und-Robin is the best in the response time.