

RESOLUÇÃO do 1º TRABALHO 11º45

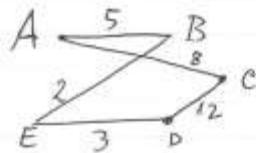
1.1)

5			
8	10		
9	4	12	
7	2	11	3

- 1.2.1) $A \xrightarrow{5} B \xrightarrow{2} E \xrightarrow{3} D \xrightarrow{12} C \xrightarrow{8} A$ TOTAL: 30
 $B \xrightarrow{2} E \xrightarrow{3} D \xrightarrow{9} A \xrightarrow{8} C \xrightarrow{10} B$ 32
 $C \xrightarrow{8} A \xrightarrow{5} B \xrightarrow{2} E \xrightarrow{3} D \xrightarrow{12} C$ 30
 $D \xrightarrow{3} E \xrightarrow{2} B \xrightarrow{5} A \xrightarrow{8} C \xrightarrow{12} D$ 30
 $E \xrightarrow{2} B \xrightarrow{4} D \xrightarrow{9} A \xrightarrow{8} C \xrightarrow{11} E$ 34

As melhores soluções têm comprimento 30 e são: ABEDCA, CABEDC e DEBACD

- 1.2.2) $B \xrightarrow{2} E$; $D \xrightarrow{3} E$; $B \xrightarrow{4} D$; $A \xrightarrow{5} B$; $A \xrightarrow{7} E$; $A \xrightarrow{8} C$
 $A \xrightarrow{9} D$; $B \xrightarrow{10} C$; $C \xrightarrow{11} E$; $C \xrightarrow{12} D$



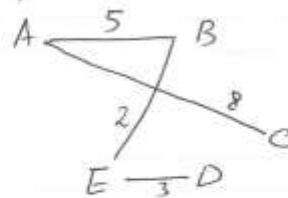
ABEDCA TOTAL: 30

1.2.3)



As melhores soluções têm comprimento 30
 ABEDCA e ACDEBA

1.3)

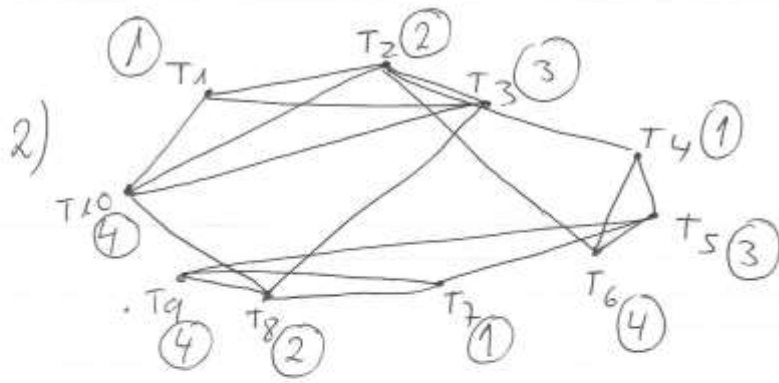


TOTAL: 18

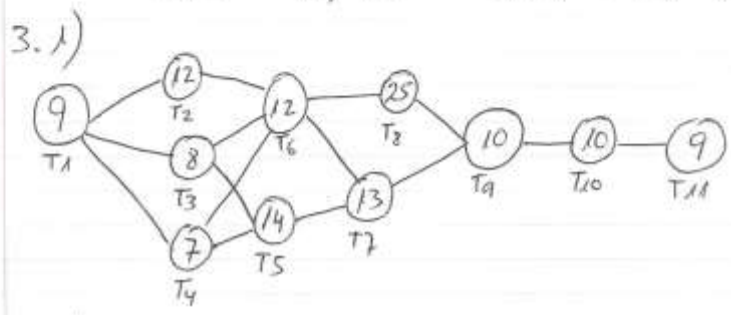
1.4) SIM. Todos os VERTICES TÊM GRAU PAR.

Exemplo:

BCDEABECADB



4 DIAS. $\frac{DIA 1}{DIA 3} \rightarrow T_1, T_4, T_7$ $\frac{DIA 2}{DIA 4} \rightarrow T_2, T_8$
 $\frac{DIA 3}{DIA 4} \rightarrow T_3, T_5$ $\frac{DIA 2}{DIA 4} \rightarrow T_6, T_9, T_{10}$



3.2) $T_1 \rightarrow 9$; $T_2 \rightarrow 21$; $T_3 \rightarrow 17$; $T_4 \rightarrow 16$; $T_5 \rightarrow 31$
 $T_6 \rightarrow 33$; $T_7 \rightarrow 46$; $T_8 \rightarrow 58$; $T_9 \rightarrow 68$; $T_{10} \rightarrow 78$; $T_{11} \rightarrow 87$

3.3) 87