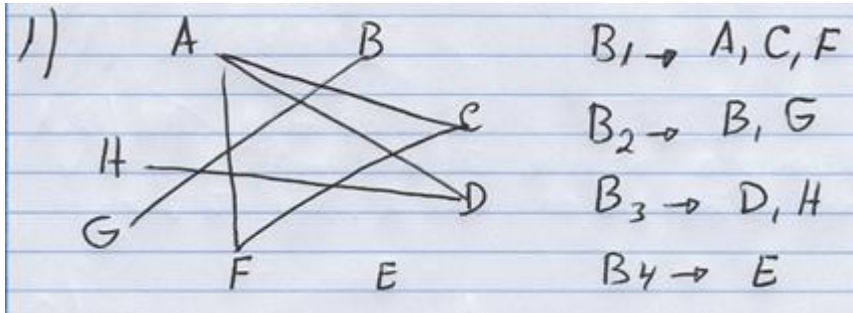


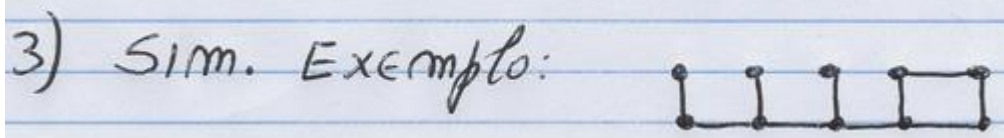
Resolução do 1º teste Out.2018 11º 41



2)

$$378 = \frac{n(n-1)}{2} \Leftrightarrow 756 = 28 \times 27$$

R: 28 VÉRTICES.



4.1) SIM, É POSSÍVEL.

TRATA-SE DE UM TRAJETO EULERIANO.
EXISTEM EXATAMENTE DOIS VÉRTICES COM GRAU ÍMPAR - C e D.

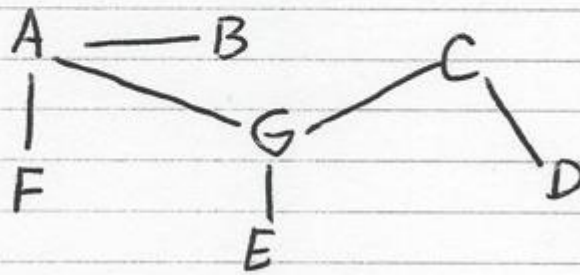
Exemplo:

$C \rightarrow D \rightarrow B \rightarrow G \rightarrow C \rightarrow B \rightarrow A \rightarrow G \rightarrow E \rightarrow A \rightarrow F \rightarrow E \rightarrow D$

TOTAL: 120

4.2 1ª ORDENAÇÃO:

$F \xrightarrow{3} A$; $G \xrightarrow{5} E$; $A \xrightarrow{6} G$; $C \xrightarrow{7} G$; $C \xrightarrow{8} D$; $A \xrightarrow{9} B$,
 $B \xrightarrow{10} G$; $E \xrightarrow{11} F$; $B \xrightarrow{12} D$; $B \xrightarrow{14} C$; $D \xrightarrow{17} E$; $A \xrightarrow{18} E$

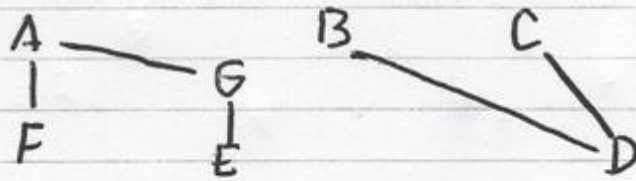


TOTAL: $3+5+6+7+8+9=38$

4.3.1)

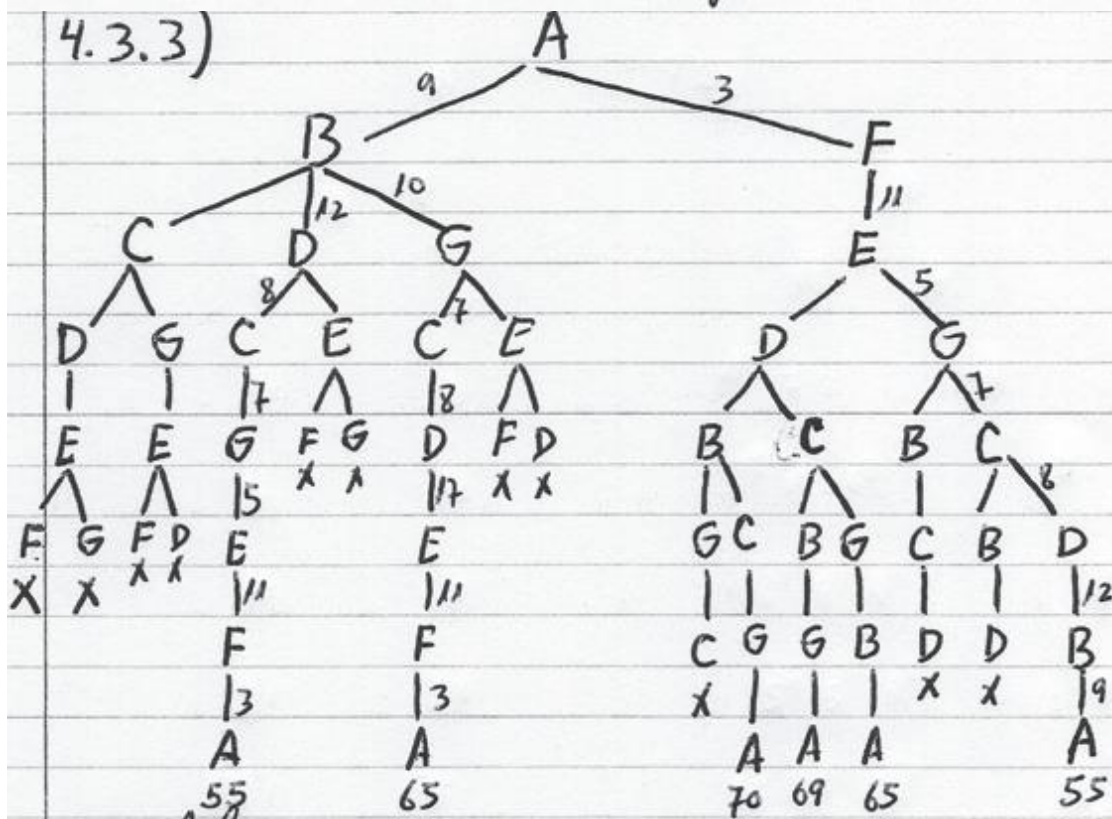
	TOTAL:
$A \xrightarrow{3} F \xrightarrow{11} E \xrightarrow{5} G \xrightarrow{7} C \xrightarrow{8} D \xrightarrow{12} B \xrightarrow{9} A$	55
$B \xrightarrow{9} A \xrightarrow{3} F \xrightarrow{11} E \xrightarrow{5} G \xrightarrow{7} C \xrightarrow{8} D \xrightarrow{12} B$	55
$C \xrightarrow{7} G \xrightarrow{5} E \xrightarrow{11} F \xrightarrow{3} A \xrightarrow{9} B \xrightarrow{12} D \xrightarrow{8} C$	55
$D \xrightarrow{8} C \xrightarrow{7} G \xrightarrow{5} E \xrightarrow{11} F \xrightarrow{3} A \xrightarrow{9} B \xrightarrow{12} D$	55
$E \xrightarrow{5} G \xrightarrow{6} A \xrightarrow{3} F$ X NÃO dá.	
$F \xrightarrow{3} A \xrightarrow{6} G \xrightarrow{5} E \xrightarrow{17} D \xrightarrow{8} C \rightarrow B$ X NÃO dá	
$G \xrightarrow{5} E \xrightarrow{11} F \xrightarrow{3} A \xrightarrow{9} B \xrightarrow{12} D \xrightarrow{8} C \xrightarrow{7} G$	55

4.3.2) USAMOS A ORDENAÇÃO APRESENTADA EM 4.2



ESTE MÉTODO NÃO É APLICÁVEL.

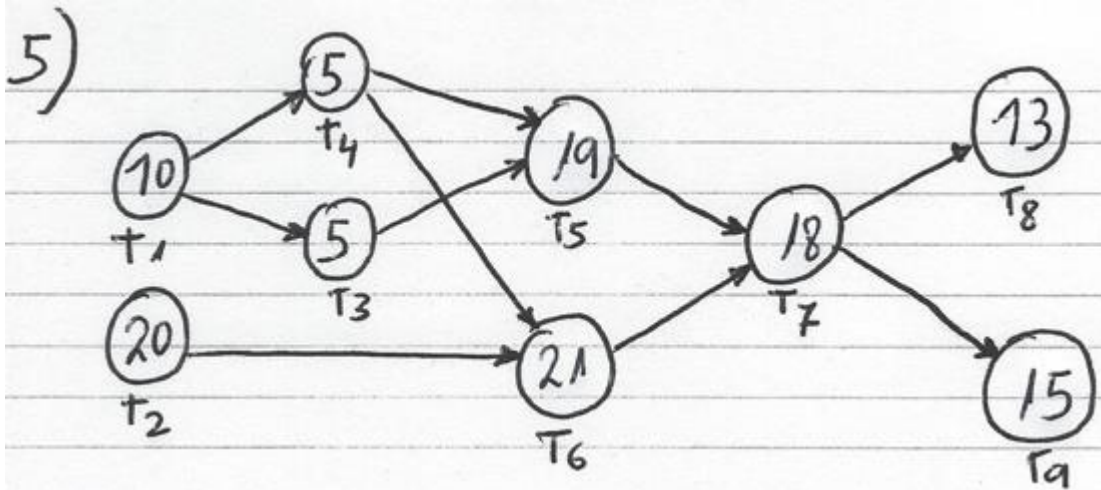
4.3.3)



Melhores percursos

A → B → D → C → G → E → F → A TOTAL: 55

A → F → E → G → C → D → B → A TOTAL: 55



$$T_6 = T_5 + 2$$

$$T_9 = T_8 + 2$$

$$T_7 + T_8 =$$

$$T_7 = T_9 + 3$$

$$T_{\text{Tempo}} = 74$$

$$T_9 + 3 + T_9 = 33 \Rightarrow 2T_9 = 30 \quad T_9 = 15$$

$$\text{Caminho CRÍTICO } 74 = 20 + T_6 + T_7 + T_9$$

$$74 = 20 + T_6 + 18 + 15$$

$$T_6 = 21$$