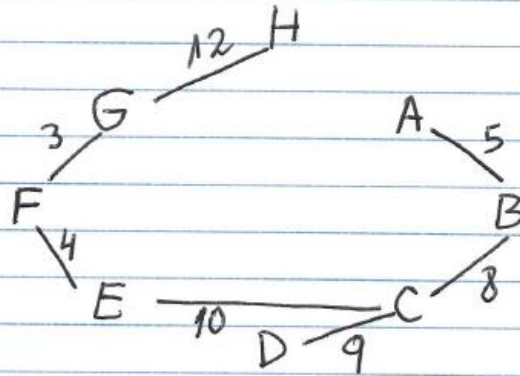


Resolução do 1º teste-Novembro 2021- turma 47

1.1) ORDEMÇÃO:
 $F \underset{3}{-} G$; $F \underset{4}{-} E$; $A \underset{5}{-} B$; $E \underset{7}{-} G$; $B \underset{8}{-} C$; $C \underset{9}{-} D$
 $C \underset{10}{-} E$; $D \underset{11}{-} E$; $H \underset{12}{-} G$; $A \underset{12}{-} C$; $H \underset{15}{-} A$; $G \underset{18}{-} C$; $A \underset{20}{-} G$



TOTAL: $3 + 4 + 5 + 8 + 9 + 10 + 12 = 51$

1.2.1)

$A \underset{5}{-} B \underset{8}{-} C \underset{9}{-} D \underset{11}{-} E \underset{4}{-} F \underset{3}{-} G \underset{12}{-} H \underset{15}{-} A$ TOTAL: 67

$B \underset{5}{-} A \underset{12}{-} C \underset{9}{-} D \underset{11}{-} E \underset{4}{-} F \underset{3}{-} G \underset{12}{-} H$ NÃO dá

$C \underset{8}{-} B \underset{5}{-} A \underset{15}{-} H \underset{12}{-} G \underset{3}{-} F \underset{4}{-} E \underset{11}{-} D \underset{9}{-} C$ TOTAL: 67

$D \underset{9}{-} C \underset{8}{-} B \underset{5}{-} A \underset{15}{-} H \underset{12}{-} G \underset{3}{-} F \underset{4}{-} E \underset{11}{-} D$ TOTAL: 67

$E \underset{4}{-} F \underset{3}{-} G \underset{12}{-} H \underset{15}{-} A \underset{5}{-} B \underset{8}{-} C \underset{9}{-} D \underset{11}{-} E$ TOTAL: 67

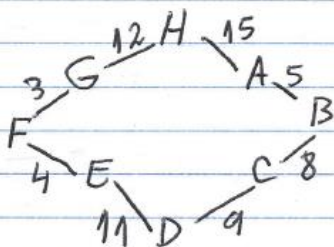
$F \underset{3}{-} G \underset{7}{-} E \underset{10}{-} C \underset{8}{-} B \underset{5}{-} A \underset{15}{-} H$ NÃO dá

G - F - E - C - B - A - H NÃO DÁ (FATAD)
3 4 10

H - G - F - E - C - B - A NÃO DÁ
12 3 4 10 8 5

As melhores soluções são as iniciadas em A, C, D, E.

1.2.2) Usamos a ordenação apresentada em 1.1



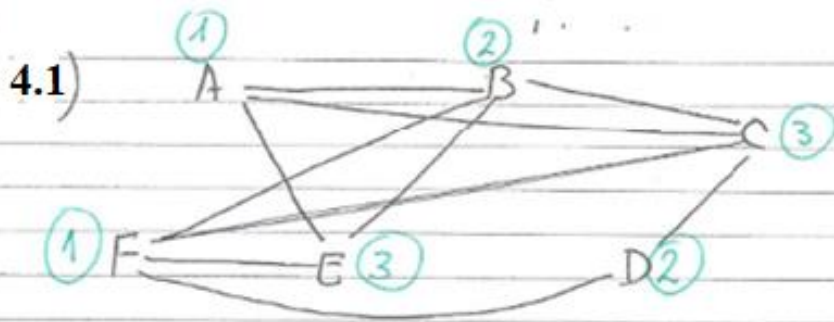
ABCDEFGHIHA

TOTAL: 67

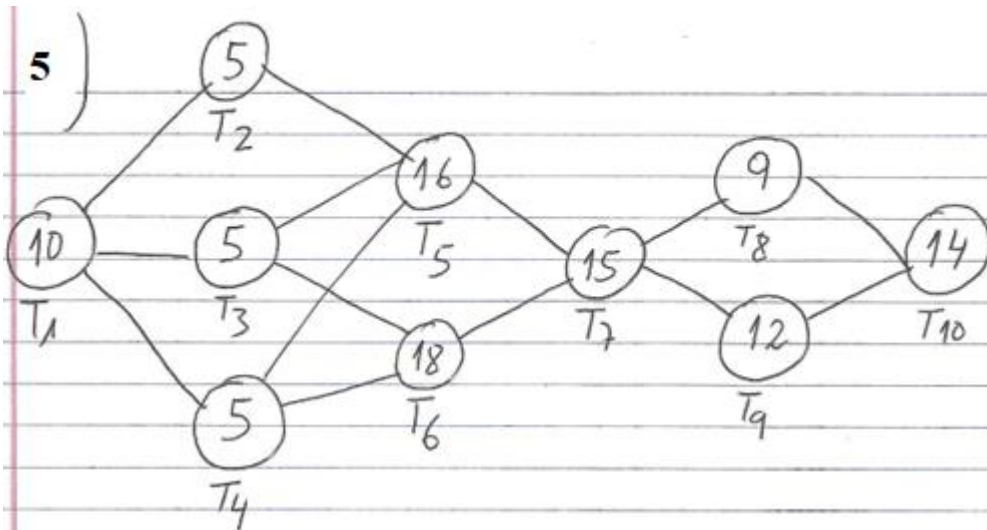
$$2) \frac{55 \times 54}{2} = 1485$$

3) SIM. Exemplo





- 4.2)
- 1 - AF
 - 2 - BD
 - 3 - CE



$$T_7 + T_9 + T_{10} = 41 \Leftrightarrow T_7 + \underbrace{T_9 + 3}_{T_7} + \underbrace{T_{10} + 1}_{T_7} = 45$$

$$\text{Logo } 3T_7 = 45 \Leftrightarrow \boxed{T_7 = 15} \quad \boxed{T_9 = 12} \quad \boxed{T_{10} = 14}$$

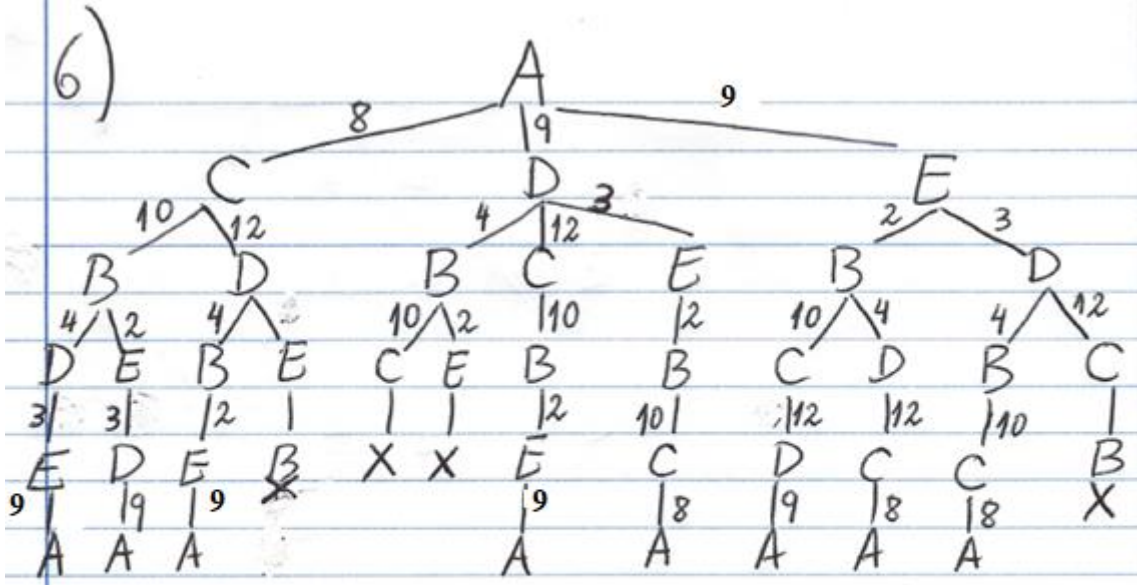
$$\boxed{T_8 = 9}$$

Come $T_1 + T_4 + T_6 + T_7 + T_9 + T_{10} = 74$, e in \bar{A}_0 :

$$10 + 5 + T_6 + 15 + 12 + 14 = 74 \text{ logo: } \boxed{T_6 = 18}$$

$$\boxed{T_5 = 16}$$

6)



34 32 35 42 32 42 35 34
 (*) (*)

Melhores soluções: (*)

ACBEDA-32 ; ADEBEA-32