

1-

$$a) 4! \Rightarrow 4 \cdot 3 \cdot 2 \cdot 1 = 24 //$$

$$b) 5! - 6! \Rightarrow 120 - 720 = -600 //$$

$$5! = 5 \cdot 4 \cdot 3 \cdot 2 \cdot 1 = 120$$

$$6! = 6 \cdot 5!$$

$$6 \cdot 120 = 720$$

$$c) \frac{9!}{6!} \Rightarrow \frac{9 \cdot 8 \cdot 7 \cdot 6!}{6!} \Rightarrow 504 //$$

$$d) \frac{98!}{100!} \Rightarrow \frac{98!}{100 \cdot 99 \cdot 98!} \Rightarrow \frac{1}{9900} //$$

$$2- \frac{1}{m!} - \frac{m}{(m+1)}$$

$$\frac{m+1}{m! \cdot (m+1)}$$

$$\frac{1}{m! \cdot (m+1)} - \frac{m}{m! \cdot (m+1)}$$

$$\frac{m+1}{m! \cdot (m+1)} - \frac{m}{m! \cdot (m+1)} \Rightarrow \frac{m+1-m}{m! \cdot (m+1)} \Rightarrow \frac{1}{m! \cdot (m+1)}$$

$$\frac{1}{(m+1)!} //$$

LETRA (A)

FORONI

3-

$$\frac{(m!)^2 - (m-1)! \cdot m!}{(m-1)! \cdot m!} \Rightarrow \frac{m! (m! - (m-1)!)}{(m-1)! \cdot m!}$$

EVIDENCIA

$$\frac{m! - (m-1)!}{(m-1)!}, m! = (m-1) \cdot m \cdot (m-1) \text{ ...}$$

$$\frac{m \cdot (m-1) - (m-1)}{(m-1)} = (m-1) // \text{ LETRA (A)}$$

4-

$$\frac{(m+2)! (m-2)!}{(m+1)! (m-1)!} \Rightarrow \frac{(m+2) (m+1) (m-1) (m-2)}{(m+1)! (m-1)!}$$

$$(m+2) (m-2) = 4$$

$$m-2 = \frac{4}{m+2}$$

$$m-2 = 2$$

$$m^2 = 2+2 = m = \sqrt{4} \Rightarrow m = 2$$

LETRA (A)

PAR //

$$5 - \frac{(m+1)! - m!}{(m+1)!} = \frac{7}{m+1} \Rightarrow \frac{(m+1) \cdot m! - m!}{(m+1) \cdot m!} = \frac{7}{m+1}$$

$$\frac{m!(m+1-1)}{(m+1) \cdot m!} = \frac{7}{m+1} \Rightarrow \frac{m}{m+1} = \frac{7}{m+1} = m=7 //$$

equação

LETRA(D)

$$6 - (m+1)! [(m+1)! - m!]$$

$$\frac{(m+1)! [(m+1) \cdot m! - m!]}{(m+1)! [m!(m+1-1)]}$$

$$\frac{(m+1)! m! m}{(m(m+1)) \cdot m!}$$

$$\frac{m! \cdot m!}{(m!)^2} //$$

LETRA(D)

$$7 - \frac{m! + (m+1)!}{(m+1)! - m!} = \frac{6}{25} \Rightarrow \frac{m \cdot (m+1)! + (m+1)!}{(m+1) \cdot m! - m!} = \frac{6}{25}$$

$$\frac{(m+1)! (m+1)}{(m+1-1) \cdot m!} = \frac{6}{25} \Rightarrow \frac{(m+1)! (m+1)}{m \cdot m!} = \frac{6}{25}$$

$$\frac{(m+1)! (m+1)}{m \cdot m(m+1)} = \frac{6}{25} \Rightarrow \frac{m+1}{m^2} = \frac{6}{25} = 6m^2 - 25m - 25$$

$$\Delta = 1225 \left\{ \begin{array}{l} \frac{25 \pm 35}{12} \end{array} \right. \begin{array}{l} 5 // \\ -0,8 // \end{array}$$

LETRA(C) FORONI



$$8- 21! = 21 \cdot 20 \cdot 19 \cdot 18 \cdot 17 \cdot 16 \cdot 15 \cdot 14 \cdot 13 \cdot 12 \cdot 11 \cdot 10 \cdot 9 \cdot 8 \cdot 7 \cdot 6 \cdot 5 \cdot 4 \cdot 3 \cdot 2 \cdot 1$$

20

15

10

5

fazem aparecer

zeros

.... 0000

- 221

779

67

LETRA (D)