NOME: chas Victor Turma: CT11348 Prontuario: 1990527

Tarefa Básica.

$$\binom{8}{3} = 8! = 8.7.6.5! = 336 = 56$$
 $\binom{8}{3} = 3!5!$
 $3.2.1.5!$
 $\binom{8}{3} = 56$

$$2^{-}$$
 $(200) = 200! = 200.199.198! = 39800 (198) $198!$ $2!$ $198!$ 2 $2$$

$$(N-1)! = 0$$

2! $(N-1-2)$

$$N^{2}-2N-N+2=0$$
 $N^{2}-3N+2=0$

$$1 = N^2 + N$$

 $2 = 24 \quad V = \{1, 2, 3\}$

$$2N^{2} + 2N = 24$$

 $N^{2} + N - 12 = 0$

$$3 + (-4) = -1$$

 $3 \cdot (-4) = -12$
 10^{-4} Não
CONJEM

soma de dois consecutivos

$$\begin{pmatrix} 20 \\ 13 \end{pmatrix} + \begin{pmatrix} 20 \\ 14 \end{pmatrix} = \begin{pmatrix} 20 + 1 \\ 13 + 1 \end{pmatrix} = \begin{pmatrix} 21 \\ 14 \end{pmatrix}$$

$$\frac{5}{\binom{N}{1}} + \binom{N}{1} + \binom{N}{2} + \cdots + \binom{N}{N} = 2^{N}$$

$$\begin{array}{c} (10) = (10) + (10) + (10) + (10) + (10) \\ (10) = (0) + (10) + (10) + (10) + (10) \\ (10) = (10) + (10) + (10) + (10) + (10) \\ (10) = (10) + (10) + (10) + (10) + (10) + (10) \\ (10) = (10) + (10) + (10) + (10) + (10) + (10) \\ (10) = (10) + (10) + (10) + (10) + (10) + (10) \\ (10) = (10) + (10) + (10) + (10) + (10) + (10) + (10) \\ (10) = (10) + (10) + (10) + (10) + (10) + (10) + (10) \\ (10) = (10) + (10) + (10) + (10) + (10) + (10) + (10) + (10) \\ (10) = (10) + (10) + (10) + (10) + (10) + (10) + (10) + (10) + (10) \\ (10) = (10) + (10) + (10) + (10) + (10) + (10) + (10) + (10) + (10) + (10) + (10) \\ (10) = (10) + (10$$

$$+(10)+(10)+(10)+(10)+(10)+(10)=2^{10}$$

B)
$$\int (10) = (10) + (10) + (10) + (10) + (10)$$
P=0

$$+(10)+(10)+(10)+(10)+(10)+(10)=2^{10}-1$$

$$(2)$$
 (9) = (9) +

$$+(9)+(9)+(9)=2-1-9=512-10=502$$

a)
$$\int_{P=4}^{10} (P) = (4) + (5) + (6) + (7) + (8) + (9) + (10)$$

 $V_{P=4}^{10} = (4) + (5) + (6) + (7) + (8) + (9) + (10)$
 $V_{P=4}^{10} = (4) + (5) + (6) + (7) + (8) + (9) + (10)$
 $V_{P=4}^{10} = (4) + (5) + (6) + (7) + (8) + (9) + (10)$
 $V_{P=4}^{10} = (4) + (5) + (6) + (7) + (8) + (9) + (10)$
 $V_{P=4}^{10} = (4) + (5) + (6) + (7) + (8) + (9) + (10)$
 $V_{P=4}^{10} = (4) + (5) + (6) + (7) + (8) + (9) + (10)$
 $V_{P=4}^{10} = (4) + (5) + (6) + (7) + (8) + (9) + (10)$
 $V_{P=4}^{10} = (4) + (5) + (6) + (7) + (10) + (10)$
 $V_{P=4}^{10} = (4) + (5) + (5) + (6) + (7) + (10)$
 $V_{P=4}^{10} = (4) + (5) + (5) + (6) + (7) + (10)$
 $V_{P=4}^{10} = (4) + (10) + (10)$
 $V_{P=4}^{10} = (4) + (10) + (10)$
 $V_{P=4}^{10} = (4) + (10) + (10)$
 $V_{P=4}^{10} = (4) + (10)$
 $V_{P=4}^{10} = (4)$
 $V_{P=4}^{10} = ($

e)
$$\begin{bmatrix} P \\ 5 \end{bmatrix} = \begin{pmatrix} 5 \\ 5 \end{bmatrix} + \begin{pmatrix} 6 \\ 5 \end{bmatrix} + \begin{pmatrix} 7 \\ 5 \end{pmatrix} + \begin{pmatrix} 8 \\ 5 \end{pmatrix} + \begin{pmatrix} 9 \\ 5 \end{pmatrix} + \begin{pmatrix} 10 \\ 5 \end{pmatrix}$$

P=5

1 + 6 + 21 + 56 + 126 + 252 = 462

$$\frac{7-m}{\sum_{k=0}^{\infty} {m \choose k}} = {m \choose 0} + {m \choose 1} \cdots {m \choose m} = 2^m = 512$$

$$2^m = 512 \qquad 2^n = 512 \qquad m = 9 \qquad E$$