## INSTITUTO FEDERAL DE EDUCAÇÃO, CIÊNCIA E TECNOLOGIA DE SÃO PAULO – CAMPUS CUBATÃO

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Turma: CTII 317

## COEFICIENTES BINOMIAIS – TRIÂNGULO DE PASCAL/TARTAGLIA

## **QUESTÕES**

01.

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Professor: Luciono A	منر	PA		12 07	
Juma: CT11 317					
Tarapa Possii	ca - Caficiantos	Dinomiais	1 44	1 10/	
/ \					
$O4. \begin{pmatrix} 8 \\ 3 \end{pmatrix} = \frac{8!}{3! \cdot 5!} =$	8.7.6.51	= 336	= 56	SAME !	
(3) 3' 5'	3.2. 4.51	6			

02.

03.

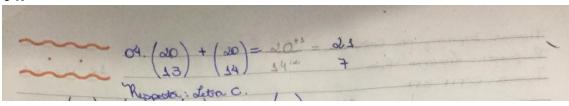
O3. 
$$(n-1) = (m+1)$$

Equipose

 $(m-1) + (m+1) = 6$ 
 $n > 0$ , pair on for so inverse, seve-
 $2n = 6$ 
 $m = 3$ 

Respects:  $1 = 9, 2, 33$ .

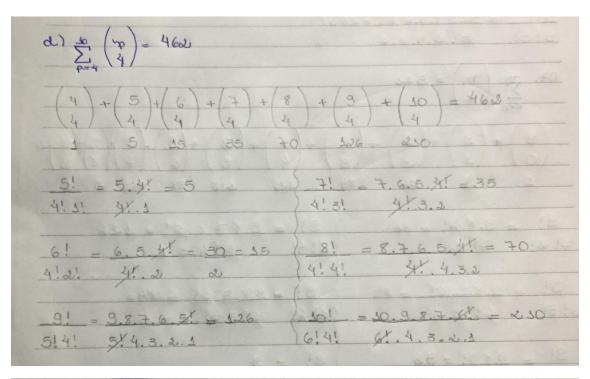
04.



05.

06.

$$06. \ a) \sum_{p=0}^{\infty} \binom{10}{p} = \binom{10}{1} + \binom{10}{1} +$$



2) 50 (P) = 41	6.2
(5)+(6)+(7)+(8)+(5)+(5)+(5)+(5)+(5)+(5)+(5)+(5)+(5)+(5	3 + 50 5 5
6! = 6.5! = 6 5!1! 5/1	8! = 8.7.6.5* = 56 5! 3! 5!.3.2.1
7! - 7.6.51 - 21 5! 2! 51.2	9! = 9.8.7.6.5" = 126
10! = 10.3.87.6.51 = 252 5!5! 5!5.4.3.2	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

$\begin{pmatrix} 9 \\ 0 \end{pmatrix} + \begin{pmatrix} 9 \\ 3 \end{pmatrix} + \begin{pmatrix} 9 \\ 2 \end{pmatrix} + \begin{pmatrix} 9 \\ 3 \end{pmatrix} + \begin{pmatrix} 9 $	(4) (5) (6) (7) (8) (9)
9! = 9.8.7! = 36 7! 2! 7.2	3! = 9.8.7.6.5! = 126 5!4! 5!4.3.2
9! = 9.8.7.6 84 6!3! 6.3.2	3! = 9.8.7.6x = 84 3! 6! 6. 3. 2.
9! = 9.8. = 36 8.14 12! Y 12!	817;
9! = 9.8! = 9 8! 1! 8! 1	