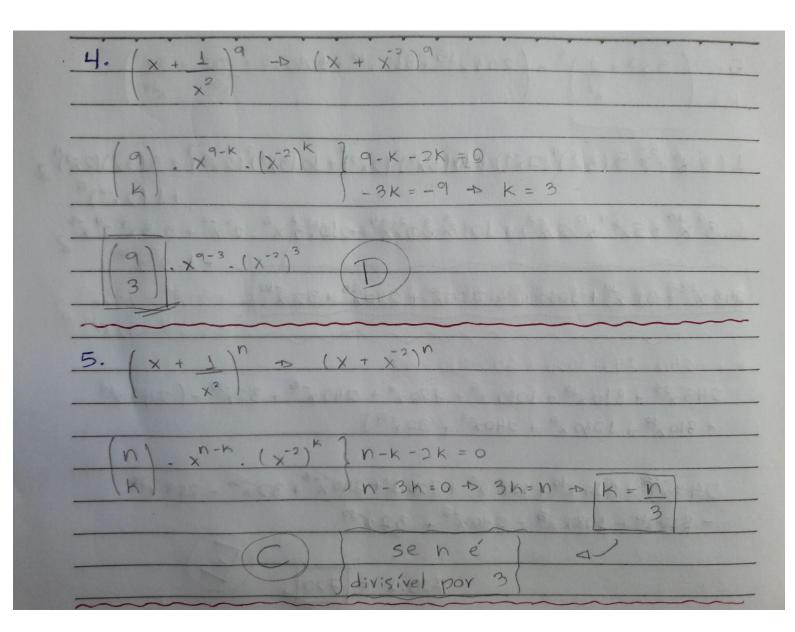
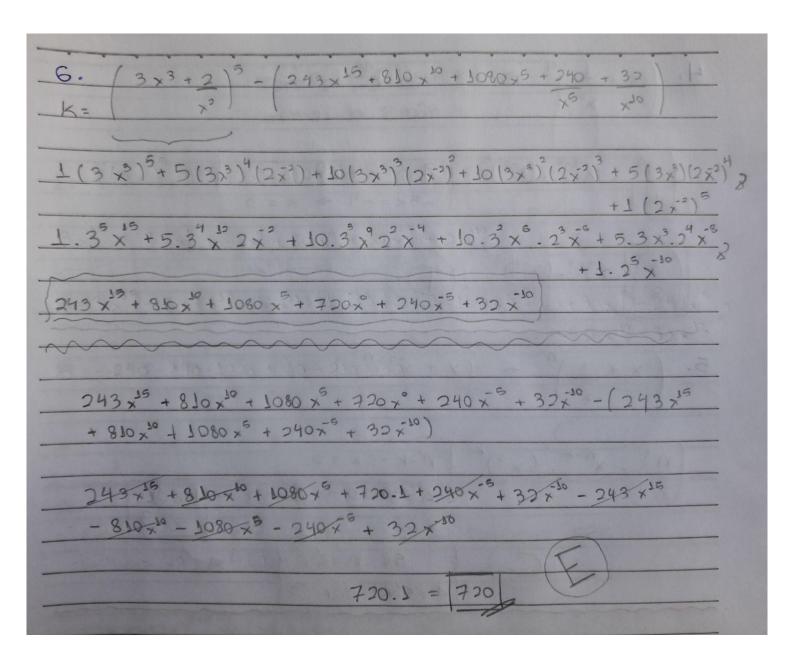
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IFSP - Câmpus Cubatão

Torefo Básica II	
Teoremo do Binômio	
1. (1+2x²)6 coeficiente de x8?	
	(2K=8
(6) 6-K (2x2) = (6) K	K 2K & K = 8/2 -
H . 7 . (5x2) = 1   H	2 · X (K = H)
[6] 4 8 6! 16.	x8 = 6.5.4 16. x8 >
$\frac{1}{2} \left(\frac{6}{4}\right) = \frac{6!}{4!(6-4)!} \cdot \frac{16 \cdot x^8}{4! \cdot 2 \cdot 1} = \frac{6 \cdot 5 \cdot 4!}{4! \cdot 2 \cdot 1} \cdot \frac{16 \cdot x^8}{4! \cdot 2 \cdot 1}$	
→ 30.16.×8 = 15.16.×8 =	240 x8 (C)
2.	
considerando x e y iguais a 1, podemos calcular	
a soma dos coeficientes:	
237 (237 ) 237 (237 )	
$(14 \times -134)^{237} = (14.1 - 13.1)^{237} = 1^{237} = 1$	
3.	<b>D</b>
$\frac{(x+3)_{11}}{}$	11.50.9.8.7.8t. 2° = 1386
$\frac{(11)}{(K)} \times \frac{11-K}{2} = 1386 \times$	8.5.4.3.2.1
(K   X .5 = 7 386 X	55 440 . 2° = 1386
11-K=5	120
K=6	462.2 = 1386
$(3)$ y -6 6 $(6)$ $\times$ -2 = $386$ $\times$	2° = 1386
	462
6!(17-e); ×2 · 9e = 738e ×2	2 = 3
6;(17-9);	2 = 3





7. considerando x e y iguais a 1 ...

 $(2 \times + 9)^5 = (2.1 + 1)^5 = 3^5 = \boxed{243}$ 

