Nome: Paola Martins da Silva\_\_\_\_\_ - CTII 317 — DATA: 22/07/21

## TAREFA BÁSICA 10

## Teorema de Binômio

$$(0.5) (1+2x^{2})^{6} + 1.1^{6}.(2x^{2})^{9} + 6.1^{5}.(2x^{2})^{4} + 15.1^{4}.(2x^{2})^{2} + 20.1^{3}.(2)^{3}$$

$$+ 15.1^{2}.(2x^{2})^{4} + 6.1^{4}.(2x^{2}) + 1.1^{9}.(2x^{2})^{6} =$$

$$\Rightarrow 1.1.1 + 6.1.2x^{2} + 15.1.4x^{4} + 20.1.8x^{6} + 15.1.16x^{8} + 6.1.32x^{10}$$

$$+ 1.64x^{12} =$$

$$\Rightarrow 64x^{12} + 192x^{10} + 240x^{3} + 160x^{6} + 60x^{4} + 12x^{2} + 1$$
Let a C

(14x - 13y)<sup>237</sup>

$$(14.1 - 13.1)^{237}$$

$$14 - 13 = 1^{237}$$

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$$14 - 13 = 1386 \times 5$$

$$14 + 1 = \frac{11}{K} \cdot x^{n-K} \cdot a^{K}$$

$$14 - 13 = 1386 \times 5$$

$$14 + 1 = \frac{11}{K} \cdot x^{n-K} \cdot a^{K}$$

$$15 - 1386 \times 5$$

$$17 = \frac{11}{6!} \cdot a^{6} = 1386$$

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$$17 = 11 \cdot 10.9.8.7.6$$

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$$\begin{array}{c} 06 \left(3.1^{3} + \frac{2}{1^{2}}\right)^{5} - \left(234.1^{15} + 810.1^{10} + 4090^{5} + \frac{240 + 32}{x^{5}}\right)^{5} \\ = 234 + 810 + 1080 + 240 + 32 = 2405 \\ (3+2)^{5} = 2405 \\ \hline \\ (5)^{5} = 3125 \\ \end{array}$$