Practice quiz on Simplification Rules and Sigma Notation

NÚMERO TOTAL DE PONTOS 6

1. Which of the numbers below is equal to the following summation: \begin {align}\displaystyle{\Sigma_{i=1}^3 i^2}\end {align}? 1 ponto

- 30
- 14
- 1
- 9

2. Suppose that $A = \Sigma_{k=1}^{100} k^4$ and $B = \Sigma_{j=1}^{100} j^4$ 1 ponto

Which of the following statements is true?

- There is not enough information to do the problem
- $A = B$
- $B > A$
- $A > B$

3. Which of the numbers below is equal to the summation $\Sigma_{i=1}^{10} 7$? 1 ponto

- 70
- 7
- 55
- 0

4.

Suppose that $X = \Sigma_{i=1}^{5} i^3$ and $Y = \Sigma_{i=1}^{5} i^4$. 1 ponto

Which of the following expressions is equal to the summation $\Sigma_{i=1}^{5}(2i^3 + 5i^4)$?

- 3375
- 7
- $2X + 5Y$
- $X + Y$

5. Which of the following numbers is the mean μ_Z of the set $Z = \{-2, 4, 7\}$? 1 ponto

- \begin {align} \frac{13}{3}\end {align}
- 4
- 9
- 3

6. Suppose the set X has five numbers in it: $X = \{x_1, x_2, x_3, x_4, x_5\}$. 1 ponto
Which of the following expression represents the mean of the set X?

- $\sum_{i=1}^{5} x_i$
- \begin {align}\frac15 [\sum_{{\large i=1}}^5 (x_i-\mu_X)^2]\end {align}
- \begin {align}\frac15 [\sum_{{\large i=1}}^5 x_i]\end {align}
- \begin {align}\frac1N [\sum_{{\large i=1}}^N x_i]\end {align}

Eu compreendo que enviar um trabalho que não seja meu pode resultar em fracasso permanente deste curso ou desativação de minha conta do Coursera.

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