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L M M J V S D

Calculo II

Q - $\frac{1}{n^4 + n^2}$

$a_1 = \frac{1}{1^4 + 1^2} = \frac{1}{2}$

Divergente =

$a_2 = \frac{1}{2^4 + 2^2} = \frac{1}{20}$

$a_3 = \frac{1}{3^4 + 3^2} = \frac{1}{90}$

$a_4 = \frac{1}{4^4 + 4^2} = \frac{1}{272}$

$a_5 = \frac{1}{5^4 + 5^2} = \frac{1}{650}$

$a_6 = \frac{1}{6^4 + 6^2} = \frac{1}{1332}$

$a_7 = \frac{1}{7^4 + 7^2} = \frac{1}{2450}$

$a_8 = \frac{1}{8^4 + 8^2} = \frac{1}{4160}$

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b- $\frac{1}{\sqrt[3]{n}}$ $a_1 = \frac{1}{\sqrt[3]{1}}$

CONVERGENTE = $a_2 = \frac{1}{\sqrt[3]{2}}$

$a_3 = \frac{1}{\sqrt[3]{3}}$

$a_4 = \frac{1}{\sqrt[3]{4}}$

$a_5 = \frac{1}{\sqrt[3]{5}}$

$a_6 = \frac{1}{\sqrt[3]{6}}$

$a_7 = \frac{1}{\sqrt[3]{7}}$

$a_8 = \frac{1}{\sqrt[3]{8}} = \frac{1}{2}$

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C - sen(n)

Divergente =

$a_1 = \text{sen } 1 = 0,8414$

$a_2 = \text{sen } 2 = 0,9092$

$a_3 = \text{sen } 3 = 0,1411$

$a_4 = \text{sen } 4 = -0,7568$

$a_5 = \text{sen } 5 = -0,9589$

$a_6 = \text{sen } 6 = -0,2794$

$a_7 = \text{sen } 7 = 0,6569$

$a_8 = \text{sen } 8 = 0,9893$

d - $\frac{1}{\ln(n+1)}$ -

Convergente =

$a_1 = \frac{1}{\ln 2} = \frac{1}{0,6931}$

$a_2 = \frac{1}{\ln 3} = \frac{1}{1,0986}$

$a_3 = \frac{1}{\ln 4} = \frac{1}{1,3862}$

$a_4 = \frac{1}{\ln 5} = \frac{1}{1,6094}$

$a_5 = \frac{1}{\ln 6} = \frac{1}{1,7917}$

$a_6 = \frac{1}{\ln 7} = \frac{1}{1,9459}$

$a_7 = \frac{1}{\ln 8} = \frac{1}{2,0794}$

$a_8 = \frac{1}{\ln 9} = \frac{1}{2,1972}$