Dag 3

Camprs
Manolog: 10-11, 1115-1215

Onsdag: 9-10, 1030-1130, 1330-1430

Torsdag: 10-11, 1115-1215

Zoom:

Vad är supremum av följande mängd?

$$M=\{x\in\mathbb{Q}:x^2\leq 2\}$$

[9k] ks, vaxande -> 3 = sup M [PK] avtogande -3 $a_{3} = 1/41 < 5 < 2 = b,$ $a_{2} = 1,41 < 5 < 1,5 = b_{2}$ $a_{3} = 1,41 < 5 < 1,42 = b_{3}$ ay = 1,414 < 3 < 1,415 = b4 SATS 1831:5 = 2. (3 = 12) 3 3 = Z マーマータダーフコモンロ GVD. => 3k sinH ak-2>0 Gre > Z => ak ovre begr. till M. are < 5 -> ar ovre seg. som or mirdre an S.

52 < 7 GMD -> def times eff tal K si bk 2 =>
Dà ligger bk EM bk > 5 (eftersom by artigul => 3 kan inte vora en orre begr. dorfor att vi har konstruerat brem, br>3 Samman tottningsvis ar 3°=2 dex ende møjligheten. $E_{X} \rho(x) = X^{5} + X - 1$ $E_{X} \rho(x) = X^{5} + X - 1$

Serier at INTE summer!! Serier at Grone rardon. Kan konvergera, kan divergere Konvergenskriterier 1. Gat serier att betakna?

1. Gar serier att beräkna?

\[\begin{align*}
\frac{1}{k^2}, \text{ic(lc+1)} &= 1 \\
\frac{2}{k^2}, \text{ic(lc+1)} &= 1 \\
\frac{2}{k^

4. Konvergeror motsv. integral?

$$\sum_{l=1}^{\infty} \frac{1}{(k+1) \ln(k+1)} \int_{(x+1) \ln(x+1)}^{\infty} \frac{dx}{(x+1) \ln(x+1)}$$

$$1 \text{ pos, avtosome} \quad f(x) = \frac{1}{(x+1) \ln(x+1)}$$

$$5. \quad \int_{0}^{\infty} \frac{dx}{dx} = \frac{1}{(x+1) \ln(x+1)}$$

$$E_{x} = \int_{(x+1)}^{\infty} \frac{1}{(x+1) \ln(x+1)} = \frac{1}{(x+1) \ln(x+1)}$$

$$Cost = 1 - \frac{1}{2}t^{c} \cdot O(t^{4})$$

$$1 - \cos(\frac{\pi}{k}) = \frac{1}{2} \cdot (\frac{\pi}{k})^{2} + O(k^{-4})$$

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Avgör om följande serie konvergerar eller divergerar:

$$\sum_{n=1}^{\infty} \sqrt{1 - \cos(\pi/n)}.$$

Avgör om följande serie konvergerar eller divergerar:

$$\sum_{n=1}^{\infty} \left(\frac{1}{n}\right)^{\ln n}.$$

Rot- och kvotkriterierna