Lucrore de control

subjectul B

randul RA

-7

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1. Determinati inf. sup, min, max pt multimea A

2. determinati multimea pot limità

$$X_{m} = \left(\frac{m+3}{m+1}\right)^{m \cdot \cos \frac{m\pi}{3}}$$

3. calculati
0 lim x3-tg3x
x > 0
x > 0

Fie 0 - ing Re) (1) 41 xeA, x 2 Q) (ii) (4) 2> Q 3 Y E A OP Y X E (i) - trivial relem P=20 P=0 P=20 P=20 ii) (+) 230) 7 YEA as Y < E (ACE (P+2) P < E(P+2)

(ACE (P+2) P < E(P+2) ing A = 0

Min A

Sup A = 1 max A

The same of the sam 1 = x + 3x (1) (= (9) 038 1= 8+9 60 (-) (-) (-)

$$2. \times_{m} = \left(\frac{m+3}{m+1}\right)^{m} \cdot \cos \frac{m\pi}{3}$$

$$m = 3 \ln \left(\frac{3\ln + 3}{3\ln + 1}\right)^{3 \ln n} \cdot \cos \frac{3\ln \pi}{3}$$

$$= \left(\frac{3\ln + 3}{3\ln + 1}\right)^{3 \ln n} \cdot \cos \frac{3\ln \pi}{3}$$

$$= \left(\frac{3\ln + 3}{3\ln + 1}\right)^{3 \ln n} \cdot \cos \left(-1\right)^{6 \ln n}$$

$$= \left(\frac{3\ln + 3}{3\ln + 1}\right)^{6 \ln n}$$

$$= \left(\frac{6 + 3}{6 + 1}\right)^{6 \ln n}$$

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$$R_{h} = 2p+1$$

$$X_{Gp+3} = \left(\frac{6p+6}{6p+4}\right)^{(6p+3)\cdot(-1)} = \left(\frac{6p+4}{6p+6}\right)^{6p+3}$$

$$\lim_{\rho \to \infty} \left(\frac{6p+4}{6p+6}\right)^{6p+3} = \lim_{\rho \to \infty} \left(1 + \frac{-2}{6p+6}\right)^{\frac{6p+6}{-2}\cdot\frac{-24}{6p+6}\cdot6p+3}$$

$$lm = 2p$$

$$X_{6p+1} = \left(\frac{6p+5}{6p+2}\right)^{(6p+1)} \cdot \frac{1}{2}$$

$$\lim_{p\to\infty} \frac{(6p+4)^{(6p+1)} \cdot \frac{1}{2}}{(6p+2)^{(6p+1)}} = \lim_{p\to\infty} \left(1 + \frac{2}{6p+2}\right) \frac{6p+2}{2} \frac{2}{6p+2} \cdot \frac{6p+1}{8}$$

$$\lim_{p\to\infty} \left(\frac{6p+5}{6p+7}\right)^{\frac{6p+7}{2}} = \lim_{p\to\infty} \left(1 + \frac{-2}{6p+7}\right)^{\frac{6p+7}{2}} \cdot \frac{-2}{6p+7} \cdot \frac{6p+7}{2}$$

$$= e^{-1} = 1$$