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Assignment 4

2021 1E/084

1) 
$$N = 0$$
a)  $n_{n+1} = 0 - \sqrt{0 - n_n} = -\sqrt{-n_n}$ 

とうこ、サナインタネタンタ

$$n_{2} = -\sqrt{-x_{1}}$$
 $n_{2} = -\sqrt{-(x_{0})^{2}}$ 
 $= 0$ 

$$h = 2$$

$$2 = -\sqrt{-\pi_2}$$

$$2 = 0$$

Transfer and the bottom a market 02) a) . - 1 & Cosn & 1 2+1 = COSNX-1 C |X-1 2+1 = 2-1051 =2-1  $\frac{1}{n+3} \leq \frac{2-\cos n}{n+3} \leq \frac{3}{n+5}$ lim \_ = [im 2-(-1/7) \le |im \frac{3}{2-(-1/7)}  $\frac{1}{n+2} = \frac{2-6c\cdot 5\eta}{n+3} \leq 0$   $\frac{1}{n+2} = \frac{2-(5\eta)}{n+3} \geq 0$ 1) -2 = San + 10532 52  $\frac{-2n^2}{(n^2+1)(n-3)} = \frac{n^2(5nn+(0^3n))}{(n^2+1)(n-3)} = \frac{2n^2}{(n^2+1)(n-3)}$  $\frac{-2n^2}{n^{3-2\delta}} \leq \lim_{n \to -\infty} \frac{n^2(snar(ssn))}{(n^2+1)(n-3)} \leq \lim_{n \to -\infty} \frac{2n^2}{(n^2+1)(n-3)}$  $\frac{1}{n-2} = \frac{2}{(1+\frac{1}{n})(1-\frac{3}{n})} \le \frac{1}{n} = \frac{n\sqrt{s_{inn} + (os^3n)}}{(n^2+1)(n-3)} \le \frac{1}{n} = \frac{2}{n}$  $0 \leq \lim_{n \to -\infty} \frac{n^2(snn+c)s^2n}{(n+1)(n-3)} \leq b$ 

:- lin n2 (sn-1/2+(03n) = 0

**CS** CamScanner