Chuyên de Rut gan bien thuse (Tiep) III/. Rut gon brêu thuie - So sans hai brêu thuie. @ - Can nhỏ: Khi so sans hay chưng minh ta lam theo 2 bước sau:

+ Budi 1: Let hieu A-B. + Ora vão ot k cuà bai để xét dâu của A-B.

. New A-B>O @ A>B; A-B<O @ A < B.

V0: $A-B = \frac{(\sqrt{x-1})^2}{\sqrt{x}}$, $co'(\sqrt{x-1})^2 > 0$ $voi moi(x \neq 1) = > \frac{(\sqrt{x-1})^2}{\sqrt{x}} > 0$ $(4k: x > 9: x \neq 1)$ $\Rightarrow A-B > 0 \text{ hay } A > B \Rightarrow 0$

* Bartap 1. Bail: Cho Q = $\frac{x\sqrt{x}-1}{x-\sqrt{x}} - \frac{x\sqrt{x}+1}{x+\sqrt{x}} + \frac{x+1}{\sqrt{x}} (x)q\cdot x \neq 1$

a, Ruit gan Q b, So Sains Q voi 4

2. Bail: Cho $A = \frac{x+2}{x\sqrt{x}-1} + \frac{\sqrt{x}+1}{x+\sqrt{x}+1} \sqrt{a} B = \frac{1}{\sqrt{x}-1} (x)g(x+1)$

a, Tin's gt cua B khi x = 49

b, Rut gan S = A - B

c, So sans S vos $\frac{1}{3}$.

 $\frac{1}{5x+1} \quad \text{vai } B = \frac{2}{7x+1} \quad (x>0)$ 3. Bai 3: Cho $A = \frac{1}{x + \sqrt{x}}$

a. Tin's gt cuis B tai x = 81

b. Reit gan P= A:B

e. So sains proj. 1/2.

4. Bai 4: Cho M= 1: $\left(\frac{x+2}{x\sqrt{x}-1} + \frac{\sqrt{x}+1}{x+\sqrt{x}+1} - \frac{1}{\sqrt{x}-1}\right)$

a, hut gon M by c/m M > 3.