$$= 1 + 2 + (3 + 4) - + 2^{n} + - + 2^{n+1}$$

$$> 1 + 2 + 4 \times 2 - - + 2^{n} \cdot 2^{n-1} \cdot - + 2^{n+1} \cdot 2^{n} - -$$

$$> 1 + 2 \cdot n = 2 + 1$$

P56

Pb4. 3.

J(1)= 121-1=-1 <0

d). Pn= ID

$$P_{n} = \sum_{i=1}^{n} f_{i} + \sum_{j=1}^{n} f_{n-1} + \frac{1}{p_{n-1}}$$

$$Q_{n} = \sum_{i=1}^{n} f_{n-1} + \frac{1}{p_{n-1}}$$

$$D_{n} = \sum_{j=1}^{n} f_{n-1} + \frac{7}{p_{n-1}}$$

$$P_{n} = \sum_{i=1}^{n} (A_{n}^{3} + A_{n}^{2})$$
 $P_{n} = P_{n-1} - \frac{P_{n-1}(A_{n-2}^{3})}{P_{n-2}^{2} - 2}$ 

$$p_n = \frac{2}{3}p_{n-1} + \frac{1}{p_n}$$

[Pn-P] < b-a 10-4

a) 
$$P_{1} = \frac{20}{21} + 1 = \frac{44}{21}$$

$$g'_{0} = \left(\frac{20}{21} - 2\right) + \frac{44}{21} = \frac{44}{21}$$

$$g'_{0} = \left(\frac{20}{21} - 2\right) + \frac{44}{21} = \frac{$$

(=Pn=213 : Po=1

$$| = f_{n} = 2 | \frac{3}{3}$$

$$| = f_{n} = 2 | \frac{3}{3}$$

$$| = \frac{23}{3} | = 0.636 = k 6$$

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$$\begin{array}{l} J_{b} = 13 - P_{h-1} \\ \hline C), \ P_{n} = P_{h-1} - \frac{P_{n-1}(P_{h-1}-21)}{P_{h-1}-21} \\ \hline = P_{h-1} \left( 1 - \frac{P_{h-1}-21}{P_{h-1}-21} \right) \\ \hline = P_{h-1} \cdot \frac{P_{h-1}-21}{P_{h-1}-21} \\ \hline \end{array}$$

$$P_{n-1} - \frac{P_{n-1} - 2}{P_{n-1} - 2}$$
 $P_{n-1} - \frac{P_{n-1} - 2}{P_{n-1} - 2}$ 
 $P_{n-1} = \frac{P_{n-1} - 2}{P_{n-1} - 2}$ 

$$\frac{1}{2} \frac{1}{1 - 1} \frac{1}{1 - 21}$$
 $\frac{1}{2} \frac{1}{1 - 21}$ 
 $\frac{1}{2} \frac{1}{1 - 21} \frac{1}{1 - 21}$ 
 $\frac{1}{2} \frac{1}{1 - 21} \frac{1}{$ 

$$= \frac{Pn^{-1}(1-Pn-1)}{Pn^{-1}-21}$$

$$d). g_{d} = (\frac{21}{Pn-1})^{\frac{1}{2}} = -\frac{1}{2}. \frac{\sqrt{21}}{Pn-1}^{\frac{1}{2}} \qquad \therefore g_{d} \ln x = 1^{\frac{|x|}{2}} \frac{1}{2} = 0.5 = kd$$

$$|g_{0}| = |\frac{2}{|x|}|^{2} = -\frac{1}{2} \cdot \frac{1}{|x|}$$

$$|g_{0}'| = |\frac{|x|}{|x|} \cdot \frac{1}{|x|}$$

Pas. of a) Xn=2 xn-1+ 1/xn-1 gix) = 1/2 xm + xm gix...) = 1/2 - xm g(Ko) > 1/2 - 1/2 = 0 iginos スッをXo+な= タル+を= 区にXoTZ 退冰沉 刚XK+1 >=15+ 左 (同况X的分析导数) .. 7n>5 1. Xn> 12 x g'(x) = 1/2 - xn2 6 (0, 1/2) : 3K 6(0, 2) 使 (g'x) < 及 随前 : 日不納点使 Ro- glphi) 端立 スニイスナメ シ スニを : 收敛于区 b). D< X0< D g'(x)= 1/2 - xn2 :- Dexelo at guseo good : Not10,12) g(x0) > g(1/2) = 1/2/2 + 1/2 = 1/2 : X,= 9(x0) > 12 O)·由的岗岩 Xox 凡物乳收效于区 由的等者的X0>D 刚从>D 数别的前有限呢不影响到收级性与收敛值.

:对 bx.20. 数划均收敛于瓦.