

(1)

~~201 = (n-1) + 3~~

(2)

$$\frac{-n^2 + n^2 - n + 3}{n^2 - 2n - 3} = \frac{-n + 3}{n^2 - 2n - 3}$$

$$= \frac{-n + 3}{(n-1)(n-3)(n+1)}$$

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

$$\frac{-n + 3 + n^2 - 2n}{(n-1)(n-3)(n+1)}$$

$$\begin{aligned} x &= 1 \\ n &= 3 \\ n &= -1 \end{aligned}$$

$$\frac{1}{(1-1)(1-3)(1+1)} = \frac{-1}{2} \checkmark$$

$$\frac{-1}{-1+1-3} = \frac{-1}{-3} = \frac{1}{3} \checkmark$$

$$\frac{1}{(1-1)(1-3)(1+1)} = \frac{-1}{2}$$

این دو جوابی که در اینجا می بینیم
جواب صحیح است
نه آنکه با آن
این حل کامل!!

(11)

$$m(m(m^2+1))$$

(6)

$$\frac{m(m(m^2+1))}{m-2} \Rightarrow \begin{aligned} m &= 0 \\ m &= 2 \end{aligned}$$

(2)

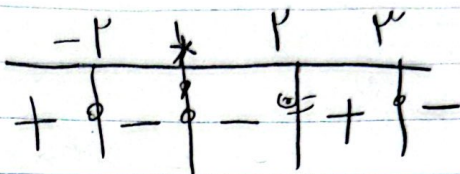
$$\frac{0}{0-2} = \frac{0}{-2} = 0$$

$$\frac{2(2(2^2+1))}{2-2} = \frac{2(2(4+1))}{0} = \frac{2(10)}{0} = \infty \checkmark$$

$$\frac{(x - r)(u + r)(u - 1)^r}{(x^r + u + 1)(r - u)^r}$$

(r)

x = r
u = -r
u = 1 *
x = r



$[-r, r) \cup [r, +\infty)$ ✓

(u)

(A)

$$\frac{r u^r - r u}{u^r + r} < y r$$

(r, u)

$$\frac{r u^r - r u - u^r - \epsilon}{u^r + \epsilon} < 0$$

$$r u^r - r u - \epsilon < 0$$

$$r u^r - r u - \epsilon < 0$$

~~u > 0~~

$$\frac{r u^r - r u - \epsilon}{u^r + \epsilon} < 0$$

$$(u - r)(u + r) < 0$$

Parsian

x = r
x = -r

$(-r, r)$ ✓

b - a = 4

$$0 < \frac{r_n^2 - \sum_{n+1}^{\infty} r_{n+1}}{n+1}$$

$$\frac{r_n^2 - \sum_{n+1}^{\infty} r_{n+1}}{n+1} < 0$$

Q

(1)

$$0 < \frac{r_n^2 - r_{n+1}}{n+1}$$

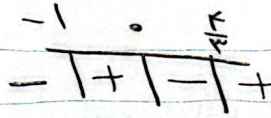
\rightarrow $q - r_{n+1} > 0$

$$\frac{\lambda(r_n - r)}{n+1} < 0$$

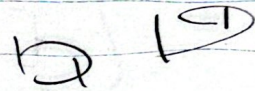
$q - r_{n+1} > 0$

$$= (-\infty, -1) \cup (0, \frac{r}{r}) \checkmark$$

$n = 0$
 $n = \frac{r}{r}$
 $r_n = r$
 $n = -1$



$$(-\infty, -1) \cup (0, \frac{r}{r})$$

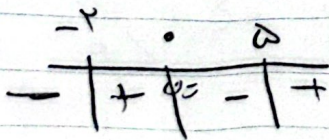


(1)

$$\frac{r_n^2 - 1 - r_n}{n} \leq 0$$

(2)

$$\frac{r_n^2 - r_n - 1}{n} \leq 0$$



$n = 0$

$$(-\infty, -r] \cup (0, a] \checkmark$$

$$(r - a)(n + r)$$

$n = a$

$n = -r$

-2. با a و Δ مقرباً: \sim

(1) $a - 1 < 0 \rightarrow a < 1$

(2) $\Delta < 0 \rightarrow (a-1)^r - f(a-1) < 0 \rightarrow (a-1)(a-\Delta) < 0$

$\left. \begin{array}{l} \text{(1) } \cap \text{ (2)} \\ \hline \end{array} \right\} \rightarrow \emptyset$
 $(1, \Delta)$

$\frac{r_{n+1}^r - r_n^r}{n+1} > -1 \rightarrow \frac{r_{n+1}^r - r_n^r}{n+1} > 0$

$\frac{r_{n+1}^r - r_n^r}{n+1} > 0 \rightarrow n+1 > 0$
 -9
 $\Delta < 0$ شرط مثبت
 $n > -1$ (1)

$\frac{n(r_n^r - f)}{n+1} < 0 \rightarrow$

$\frac{-1 \quad 0 \quad \frac{r}{r}}{- \quad + \quad 0 \quad - \quad 0 \quad +}$

$n < -1, 0 < n < \frac{r}{r}$ (2)

$\text{(1)} \cap \text{(2)} \rightarrow$

$0 < n < \frac{r}{r}$