

① برای آنکه تابع در R پیوسته باشد باید عبارت زیر را در R برقرار داشته باشد $\Delta = m^2 - 4m + 4 \leftarrow$ باید در R پیوسته باشد

$$(m-2)^2 \geq 0 \rightarrow \boxed{m=2} \rightarrow f(x) = \begin{cases} \frac{\sqrt{4m^2-4m+4}}{|2m^2-4m+4|} = \frac{\sqrt{4} \times |m+\frac{1}{2}|}{|2m^2-4m+4|} \\ \frac{2 \tan b}{1-m} \end{cases}$$

مخرج نباید تا تابع پیوسته باشد

$$\frac{\sqrt{4} \times |m+\frac{1}{2}|}{|2m^2-4m+4|} = \frac{\sqrt{4} \times |m+\frac{1}{2}|}{2|m+\frac{1}{2}| \times |2m-\frac{1}{2}|} = \frac{\sqrt{4}}{2|2m-\frac{1}{2}|} = \frac{\sqrt{4}}{2 \times \frac{1}{2}} = \frac{\sqrt{4}}{1} = 2 \leftarrow a = \frac{1}{2}$$

$$\frac{\sqrt{4} \times |m+\frac{1}{2}|}{|2m^2-4m+4|} = 2 \rightarrow \frac{\sqrt{4} \times |m+\frac{1}{2}|}{2|m+\frac{1}{2}| \times |2m-\frac{1}{2}|} = 2 \rightarrow \frac{\sqrt{4}}{2|2m-\frac{1}{2}|} = 2 \rightarrow \frac{\sqrt{4}}{2} = 2|2m-\frac{1}{2}| \rightarrow \sqrt{4} = 4|2m-\frac{1}{2}| \rightarrow 2 = 4|2m-\frac{1}{2}| \rightarrow \frac{1}{2} = |2m-\frac{1}{2}| \rightarrow \boxed{a=\frac{1}{2}} \quad \boxed{b=\frac{3}{4}}$$

از $n=1 \rightarrow 1+a+b=0$

از طرفی a, n در معادله اول است $\left. \begin{aligned} \frac{a}{b} &= \frac{b}{a} + 1 \\ \frac{b}{a} &= 1 \times a \rightarrow a = \frac{b}{a} \end{aligned} \right\} \rightarrow -\frac{b}{a} - \frac{1}{a} = \frac{b}{a} + 1 \rightarrow \frac{2b}{a} = \frac{4}{a} \rightarrow b = 2 \rightarrow a = 2$

$$\left[\frac{b-2a}{3} \right] = \left[\frac{-4}{3} \right] = \boxed{-3}$$

② تابع در $n=2$ پیوسته است (از راست)

$$\tan \frac{\pi}{4} = -1 = \frac{(n+2)(n-1)}{a(1-n)} \rightarrow a = 5$$

تابع در $n=0$ پیوسته است (از چپ)

$$\frac{2n}{-4 \times 3} = b \times 10 \rightarrow b = \frac{-7}{30} \rightarrow \boxed{ab = \frac{-7}{10}}$$

④ $f(x) = a[x] + a + b[x] + b[x+1] = [x](a+b) + a+b + b[a] \rightarrow$

در R پیوسته $\leftarrow$ در $n=0$ پیوسته $\leftarrow f(0^+) = f(0^-) \rightarrow a+b+b[a] = b[a] \rightarrow$

$$b = -a \rightarrow f(x) = b[a] = -a[a] \rightarrow \frac{a[a]}{f(x)} = \frac{a[a]}{-a[a]} = \boxed{-1}$$

⑤ می دانیم توابع f, g در R پیوسته و $f(0) = 0, g(0) = 0$ و $f(1) = 1, g(1) = 1$ و $f(2) = 2, g(2) = 2$ و $f(3) = 3, g(3) = 3$ و $f(4) = 4, g(4) = 4$ و $f(5) = 5, g(5) = 5$ و $f(6) = 6, g(6) = 6$ و $f(7) = 7, g(7) = 7$ و $f(8) = 8, g(8) = 8$ و $f(9) = 9, g(9) = 9$ و $f(10) = 10, g(10) = 10$ و $f(11) = 11, g(11) = 11$ و $f(12) = 12, g(12) = 12$ و $f(13) = 13, g(13) = 13$ و $f(14) = 14, g(14) = 14$ و $f(15) = 15, g(15) = 15$ و $f(16) = 16, g(16) = 16$ و $f(17) = 17, g(17) = 17$ و $f(18) = 18, g(18) = 18$ و $f(19) = 19, g(19) = 19$ و $f(20) = 20, g(20) = 20$ و $f(21) = 21, g(21) = 21$ و $f(22) = 22, g(22) = 22$ و $f(23) = 23, g(23) = 23$ و $f(24) = 24, g(24) = 24$ و $f(25) = 25, g(25) = 25$ و $f(26) = 26, g(26) = 26$ و $f(27) = 27, g(27) = 27$ و $f(28) = 28, g(28) = 28$ و $f(29) = 29, g(29) = 29$ و $f(30) = 30, g(30) = 30$ و $f(31) = 31, g(31) = 31$ و $f(32) = 32, g(32) = 32$ و $f(33) = 33, g(33) = 33$ و $f(34) = 34, g(34) = 34$ و $f(35) = 35, g(35) = 35$ و $f(36) = 36, g(36) = 36$ و $f(37) = 37, g(37) = 37$ و $f(38) = 38, g(38) = 38$ و $f(39) = 39, g(39) = 39$ و $f(40) = 40, g(40) = 40$ و $f(41) = 41, g(41) = 41$ و $f(42) = 42, g(42) = 42$ و $f(43) = 43, g(43) = 43$ و $f(44) = 44, g(44) = 44$ و $f(45) = 45, g(45) = 45$ و $f(46) = 46, g(46) = 46$ و $f(47) = 47, g(47) = 47$ و $f(48) = 48, g(48) = 48$ و $f(49) = 49, g(49) = 49$ و $f(50) = 50, g(50) = 50$ و $f(51) = 51, g(51) = 51$ و $f(52) = 52, g(52) = 52$ و $f(53) = 53, g(53) = 53$ و $f(54) = 54, g(54) = 54$ و $f(55) = 55, g(55) = 55$ و $f(56) = 56, g(56) = 56$ و $f(57) = 57, g(57) = 57$ و $f(58) = 58, g(58) = 58$ و $f(59) = 59, g(59) = 59$ و $f(60) = 60, g(60) = 60$ و $f(61) = 61, g(61) = 61$ و $f(62) = 62, g(62) = 62$ و $f(63) = 63, g(63) = 63$ و $f(64) = 64, g(64) = 64$ و $f(65) = 65, g(65) = 65$ و $f(66) = 66, g(66) = 66$ و $f(67) = 67, g(67) = 67$ و $f(68) = 68, g(68) = 68$ و $f(69) = 69, g(69) = 69$ و $f(70) = 70, g(70) = 70$ و $f(71) = 71, g(71) = 71$ و $f(72) = 72, g(72) = 72$ و $f(73) = 73, g(73) = 73$ و $f(74) = 74, g(74) = 74$ و $f(75) = 75, g(75) = 75$ و $f(76) = 76, g(76) = 76$ و $f(77) = 77, g(77) = 77$ و $f(78) = 78, g(78) = 78$ و $f(79) = 79, g(79) = 79$ و $f(80) = 80, g(80) = 80$ و $f(81) = 81, g(81) = 81$ و $f(82) = 82, g(82) = 82$ و $f(83) = 83, g(83) = 83$ و $f(84) = 84, g(84) = 84$ و $f(85) = 85, g(85) = 85$ و $f(86) = 86, g(86) = 86$ و $f(87) = 87, g(87) = 87$ و $f(88) = 88, g(88) = 88$ و $f(89) = 89, g(89) = 89$ و $f(90) = 90, g(90) = 90$ و $f(91) = 91, g(91) = 91$ و $f(92) = 92, g(92) = 92$ و $f(93) = 93, g(93) = 93$ و $f(94) = 94, g(94) = 94$ و $f(95) = 95, g(95) = 95$ و $f(96) = 96, g(96) = 96$ و $f(97) = 97, g(97) = 97$ و $f(98) = 98, g(98) = 98$ و $f(99) = 99, g(99) = 99$ و $f(100) = 100, g(100) = 100$ و $f(101) = 101, g(101) = 101$ و $f(102) = 102, g(102) = 102$ و $f(103) = 103, g(103) = 103$ و $f(104) = 104, g(104) = 104$ و $f(105) = 105, g(105) = 105$ و $f(106) = 106, g(106) = 106$ و $f(107) = 107, g(107) = 107$ و $f(108) = 108, g(108) = 108$ و $f(109) = 109, 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$$n: d \rightarrow a: r \rightarrow \boxed{m: y}, (n-r)(n-f): z' - y_{n+r} \wedge \rightarrow \boxed{n: \lambda} \rightarrow$$

$$1 - a_2 \mu_{a-1}^r \rightarrow \mu_{a+a-1}^r \rightarrow \boxed{a_2 \frac{r}{r_2}} \quad \text{⑦}$$

$$a_2 - 1 \rightarrow r([n] \cup [-n]) \xrightarrow{n \neq 2} -r \rightarrow b \sin\left(\frac{\pi}{n}\right)$$

$$2. a \neq -2 \rightarrow a_{i-1} \text{ GG'E}$$

$$a = \frac{r}{r} \rightarrow f(x) = \begin{cases} \frac{1}{r}([u] + [-u]) = \frac{1}{r} \\ b \sin(\frac{\pi x}{r}) = b \end{cases} \rightarrow b, \frac{1}{r} \rightarrow \frac{a}{b} = \frac{r}{1} \quad \boxed{r}$$

$$|z^n + m z^{n-m-1}| = |z^n - 1 + m(z-1)| = |(z-1)(z^{n-1} + \dots + 1) + m(z-1)| = |z-1| |z^{n-1} + \dots + 1 + m|$$

$$m|n^r-1| + |n-1| \leq |n-1|(m|n+1| + 1)$$

$$\rightarrow \frac{|2+im|}{m|2+1|+1} = \frac{|m+r|}{r(m+1)} = \frac{m}{m+r} \rightarrow \begin{cases} | \rangle_m & m^r + r m + f_2 r m^r + m \rightarrow m^r \epsilon_n - \epsilon_2 \\ | \rangle_m & -m^r - r m - f_2 r m^r + m \rightarrow m = f \end{cases}$$

$$\rightarrow C_m^r + \int_m + f_2 \cdot \Delta \leq 0$$

$$\xrightarrow{i f} m=1 \rightarrow \text{Symplectic} \rightarrow \frac{|a^2-1|}{-|a^2-1||a-1|} = \frac{|a-1||a|}{|a-1|(-|a-1|)} = \frac{|a|}{-|a|} = -1$$

$$\rightarrow \boxed{m_{2f}} \rightarrow \lim_{\kappa \rightarrow \frac{1}{f}} \lim_{\kappa \rightarrow \frac{1}{f}} \frac{|\frac{1}{14} + 1 - \epsilon|}{\epsilon \times \frac{10}{14} + \frac{\kappa}{f}} = \frac{\frac{9\kappa}{14}}{\frac{1}{f}} = \boxed{\frac{v}{\lambda}}$$

⑨ $\sigma_{\text{mol}}^2, a \rightarrow R^* + a_{20} \rightarrow a_{20} \text{ } \overline{\sigma\sigma\sigma} \text{ } \neq 0 \text{ } 1 \text{ } \mu_j$

$a_1 = 1$ $\rightarrow$ $a_1 - 1 \rightarrow -1 - m + 2 + 1 \geq 0 \rightarrow m \leq 2$

$$\lim_{n \rightarrow -1} = \frac{\sqrt{n}|-n-1|}{|n^2+1|} = \lim_{n \rightarrow -1} \frac{\sqrt{n}}{|n^2-n+1|} = \frac{\sqrt{n}}{n^2}$$

لے یا ملتے ہیں

DATE / / SUBJECT:

$$\frac{n^r + |n|}{n^r + a|n|} \cdot \frac{|n|(1+|n|)}{|n|(1+|a|)} \cdot \frac{|n|+1}{|n|+a} \rightarrow \frac{1}{a} \cdot \frac{2a-1}{2a+2} \rightarrow \frac{2a+2}{2a+2} \cdot \frac{2a^2-a}{2a+2} \rightarrow \textcircled{10}$$

$$2a^2 - 2a - 2 = 0 \rightarrow a = \frac{2 \pm \sqrt{20}}{4} = \frac{1 \pm \sqrt{5}}{2}$$

$a = \frac{1}{2}$ سے بڑھ کر نہیں آتا
 یا تو۔

$$\lim_{n \rightarrow \frac{1}{2}} f(n) = \frac{\frac{1}{2} + \frac{1}{2}}{\frac{1}{2} + 2 \times \frac{1}{2}} = \frac{\frac{1}{2}}{\frac{5}{2}} = \frac{1}{5}$$