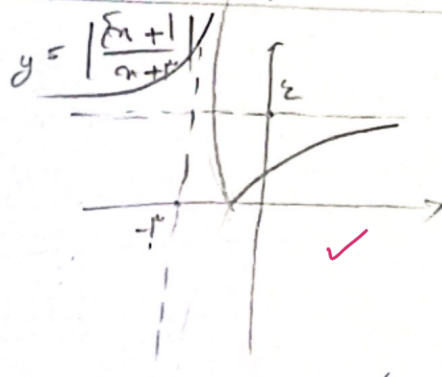
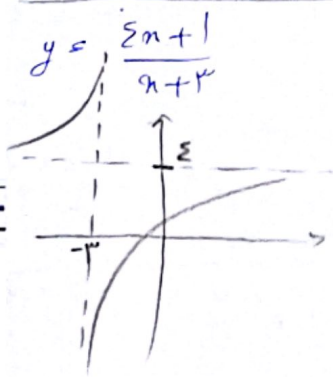
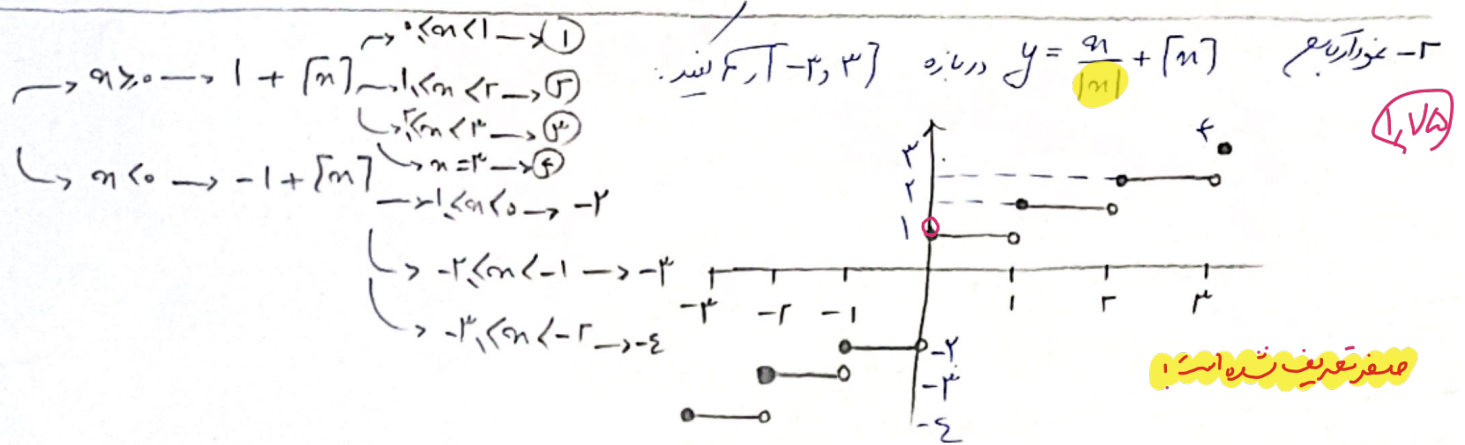


۱۹، ۷۵

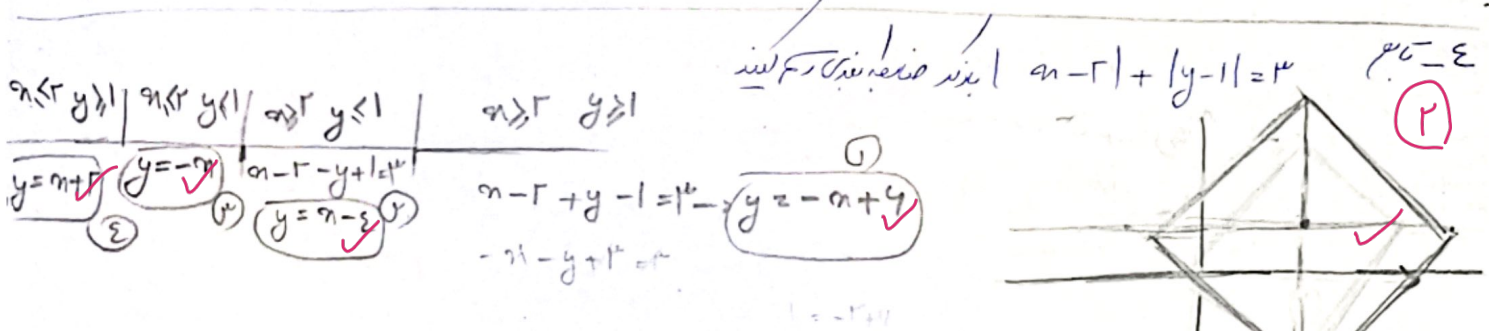
۱- در تابع
۲- در تابع

الف) $f(n) = \sqrt[n]{\sin^n(n + \frac{\pi}{2})} - 1$
 $[0, 2] - 1 \rightarrow [-1, 1] \checkmark$

ب) $g(n) = \sqrt[n]{\cos^n} - 2$
 $[-1, 1] - 2 \rightarrow [-\sqrt[n]{1}, -1]$



نمودار تابع $y = \left| \frac{n+1}{n+2} \right|$ در بازه $[-3, 1]$ باشد.



الف) $f(n) = n + \frac{1}{n} + \sqrt[n]{n + \frac{1}{n}}$
 $\left(\sqrt[n]{n + \frac{1}{n}} + 1 \right) - 1 \rightarrow \min \rightarrow (\sqrt[2]{2} + 1) - 1 \rightarrow \sqrt[2]{2}$
 $R_f = [\sqrt[2]{2}, +\infty)$

ب) $g(n) = (-3 - \sin)(1 + \sin n)$
 $-\sin^2 + 2\sin + 3$
 $\sin = 1 \rightarrow 2$
 $\sin = -1 \rightarrow 0$
 $\sin = \frac{2}{3} \rightarrow 2$
 $R_g = [0, 2]$

۵- دانسته داریم $\frac{1}{3}n + 10$ ، $\frac{1}{3}n + 10$ را در $\frac{1}{3}(1 + 7 + \dots + 9) + 10 \times 9$ قرار دهیم.

$$\begin{aligned} \Gamma - \Gamma C &= -\Gamma C \\ C &= -\Gamma \\ b &= 1 \end{aligned}$$

$\eta = \Sigma$ → عزم
 $\eta = -\Gamma$ ← ردافه

$$\frac{a^2n^2 + an + b}{(n-1)^2} \rightarrow a^2 - 1 + 2an - 4n + 1$$

$$\frac{1}{T} < n < 1 \rightarrow 0 + 1 \rightarrow \textcircled{1}$$

$$1 < n < \frac{1}{T} \rightarrow 1 + 1 \rightarrow \textcircled{2}$$

$$\frac{1}{T} < n < 2 \rightarrow 1 + 2 \rightarrow \textcircled{3}$$

$\frac{1}{2} < n < \frac{1}{T}$

