

$|n-2| > |n+1|$ نقطه $n^2 - f_{n+2} > f_{n+1} + f_{n+2}$ (ب) 11, V5

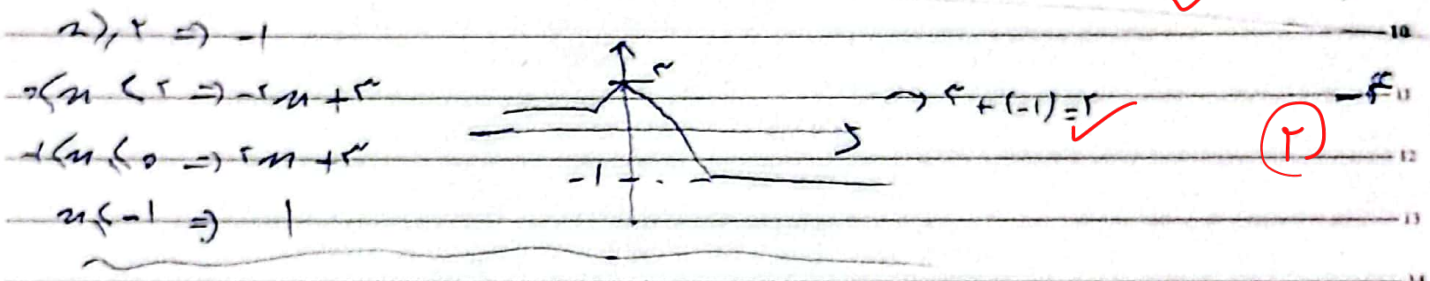
$n^2 + 8n - 3 < 0 \rightarrow \frac{-2}{+1-1+} (-3, \frac{1}{2}) - \{ -\frac{1}{2} \}$ (5, 6, 6)

SUBJECT _____
 Year _____ Month _____ Day _____

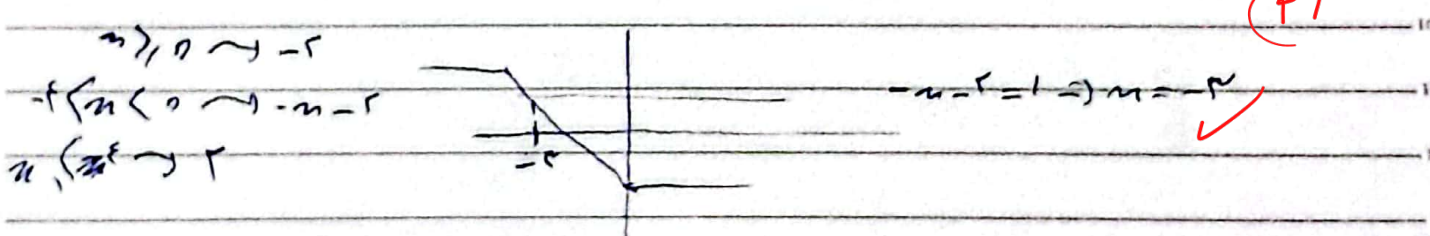
غیر
 $\frac{1}{n-1} = n-1 \Rightarrow n = 0$ $\frac{1}{n-1} = n+1 \Rightarrow n = 0$ جواب 1

الف) $|n-1| < |n| \Rightarrow f_{n-1} - f_{n+1} < f_{n+1} \Rightarrow n > \frac{1}{2}$ ✓ (1, 2)
 ب) $|n-2| > |n+1| \Rightarrow n^2 - f_{n+2} > f_{n+1} + f_{n+2} \Rightarrow n = -1$ ✓ (1, 2)

$n^2 - n - 4 < 0 \sim n \in (-1.55, 2.55)$ $\alpha - \beta < n < \alpha + \beta \Rightarrow \alpha = 1$ (2)
 $\alpha = \frac{1}{2} \Rightarrow \beta = \frac{3}{2}$ ✓



$|\frac{1}{2}n| - 2 = |\frac{1}{2}n + 2| - 1 \Rightarrow |\frac{1}{2}n| - |\frac{1}{2}n + 2| = 1$ (2)



الف)
 $n > 1 \sim -d$
 $f(n < 1) \sim -2n - 2 \sim \{ -d, \dots, d \}$ ✓ (1, 5)
 $n < -1 \sim d$

$\frac{1}{n} - [\frac{1}{n}] + 1 \sim \frac{1}{n} - [\frac{1}{n}] + 1 < 1 \sim R = [-1, 0)$
 $\frac{1}{n} - [\frac{1}{n}] + 1 < 1 \sim R = [-1, 0)$

