

نام و نام خانوادگی: امیررضا صفایی پاسخنامه تشریحی تکلیف شماره ۱۷ کلاس دوازدهم B

$(m)_2 + \infty \rightarrow y \approx 1$
 $(20)_2 \rightarrow y \approx \frac{1}{4}$

$$\frac{n_{T+1}}{n} = |n|^{-1} \frac{1}{|n|} = \boxed{a_{T+1} \frac{1}{a}} \rightarrow (T, +\infty) = \mathbb{R} \quad (\hookrightarrow)$$

$$D_f \mid R - \{-r\} \rightarrow \frac{(n+r-n-r)+1}{n+r} = \frac{(n+r)(n-1)+1}{n+r} = n-1 + \frac{1}{n+r} = \overbrace{\left(n+r + \frac{1}{n+r}\right)}^{R(-\infty, r] \cup [r, +\infty)} - r$$

$$\frac{(nT - n + 1) - \frac{\mu}{n}}{nT - n + 1} \approx 1 - \frac{\mu}{(nT - n + 1)}$$

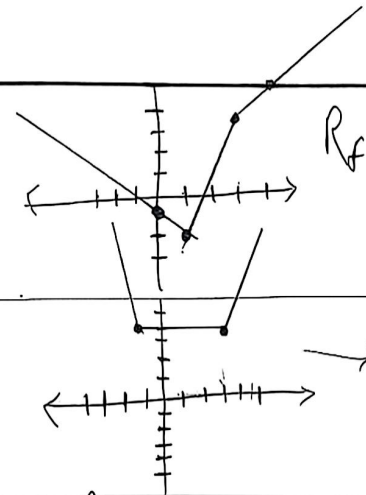
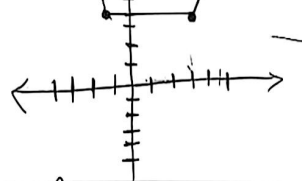
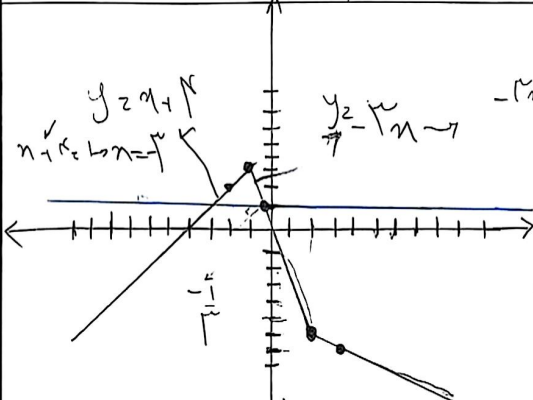
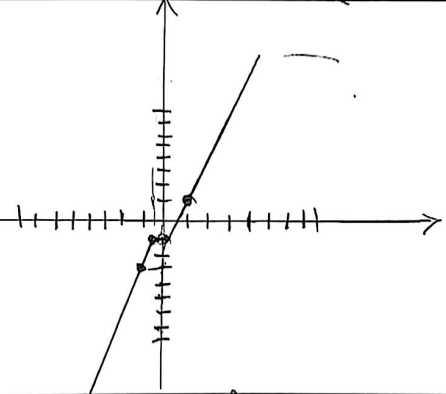
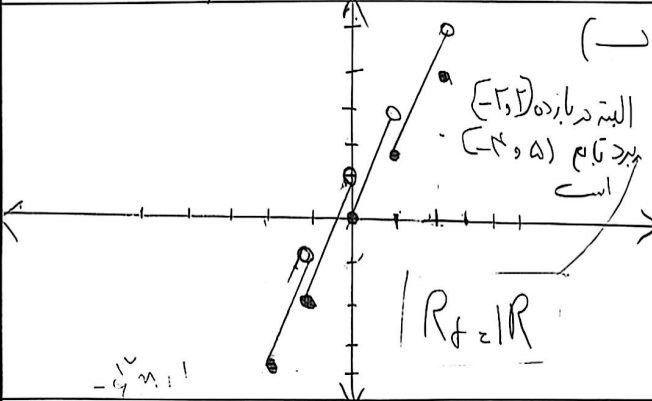
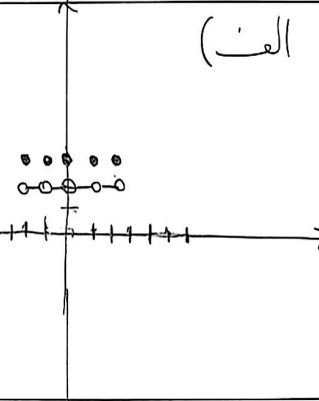
$$\rightarrow R = [0, 1]$$

الف) $R_{(-n+1, n-1)} = (-\infty, \sqrt{3}] \xrightarrow{\quad} R_f = [0, \sqrt{3}]$ (الف)

$$\text{AR}_{1, n^2-1, n} = (-1, +\infty) \supseteq R_f = (-1, +\infty) \quad \text{f.}$$

(الف) $R_{(n-k+1)} = \mathbb{R} \rightarrow \log\left(\frac{-\infty}{1+\infty}\right) = (-\infty, +\infty) \rightarrow \mathbb{R}_f = \mathbb{R}$
 (ب) $\lim_{x \rightarrow -\infty} f(x) = 0$

$$\therefore R_{\frac{n+1}{n}} = [-\infty, \infty] \cup (r, +\infty) \rightarrow \log_x(r, +\infty) = [1, +\infty) = R_f$$

الف)  $R_f = [-2, +\infty)$	٤
ب)  $R_f = [2, +\infty)$	٥
 $y = 1, x = -1$ $y = 0, x = -3$ $y = 0, x = -1/3$ $x = -1 \rightarrow y = 1$ $x = -3 \rightarrow y = 0$ $x = -1/3 \rightarrow y = 0$ $x \in \mathbb{R} \rightarrow y = -1/x$	٧
 $R_f = \mathbb{R}$	٨
 $R_f = \mathbb{R}$	الف)  $[2] + [-3] + 3$ $R_f = [2, 3]$
الف: $\sin x$ $1 \rightarrow y = 1$ $-1 \rightarrow y = -1$ $1/2 \rightarrow y = 1/2$ $R_f = [-1, 1]$	٩
$y = (\sin x)^2 + (\sin x) + 1$ $1 \rightarrow y = 1$ $0 \rightarrow y = 0$ $-1/2 \rightarrow y = -1/2$ $R_f = [1, 2]$	١٠