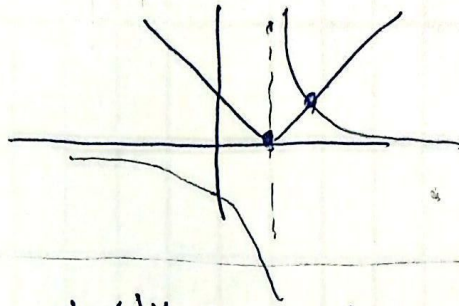


کلاس مائزہ نمبر A

محمد آتی رضائی

$$\textcircled{1} \frac{1}{n-1} = |n-1| \Rightarrow$$



نکات
ن=2

$$\textcircled{2} \text{الف) } \left| \frac{n-1}{n} \right| < 2 \Rightarrow |n-1| < |2n| \Rightarrow (n-1-2n)(n-1+2n) < 0$$

$$\Rightarrow n > \frac{1}{3}$$

$$\text{ب) } \left| \frac{n-2}{n+1} \right| > 1 \Rightarrow (n+1+n-2)(n+1-n+2) > 0 \Rightarrow n \in (-3, \frac{1}{3}) - \{-\frac{1}{2}\}$$

$$\textcircled{3} n^2 < |n+2| \quad -1 < n < 3 \quad \frac{-2+3}{2} = 0.5$$

$$n^2 = n+2 \quad \boxed{\alpha = 0.5} \quad |n-0.5| < 1.5$$

بہترین 3 فیسیں :- 1, 2, 3

W_{max} :- 1, 0, 2

1, 3, -1, -1

$$\boxed{3-1=2}$$

$$\textcircled{4} \left| \frac{1}{2}(n+2) \right| + 1 = \left| \frac{1}{2}n \right|$$

$$|n+2| + 2 = |n|$$

$$\frac{1}{2}|n+2| + 1 = \frac{1}{2}|n|$$

$$\Rightarrow n+2+2 = -n$$

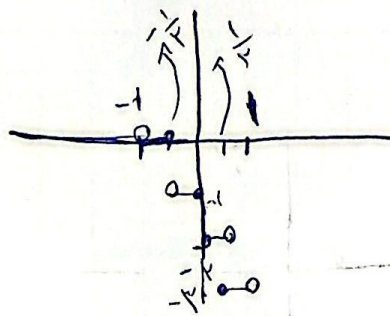
$$\boxed{n = -4}$$

$$\boxed{n = -3}$$

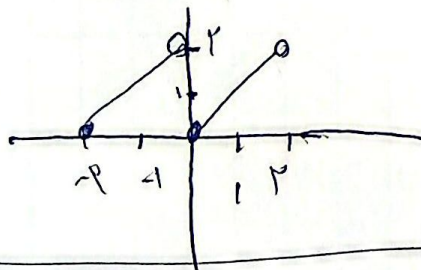
$$\textcircled{5} \text{الف) } \left[\frac{1}{n} - \left[\frac{1}{n} \right] - 1 \right]$$

$$\text{ب) } \left[\frac{1}{n} - \left[\frac{1}{n} \right] - 1 \right] < 0 \Rightarrow -1 \leq \frac{1}{n} - \left[\frac{1}{n} \right] - 1 < 0 \quad R_f = [-1, 0]$$

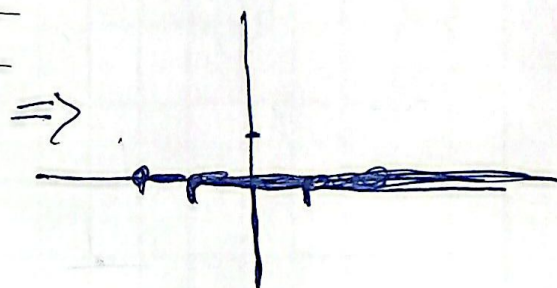
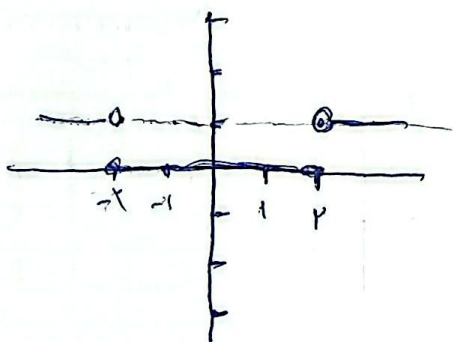
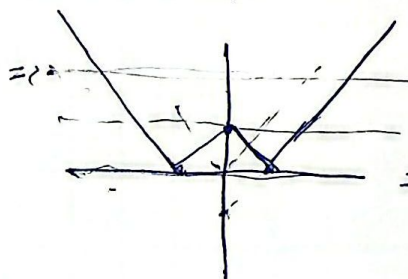
⑦ الف) $y = [-2m] - 1$



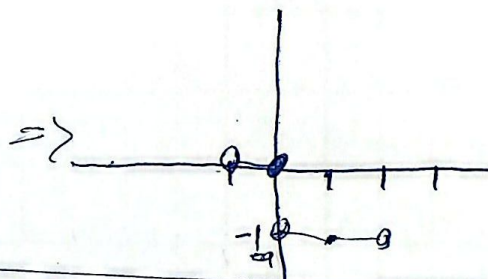
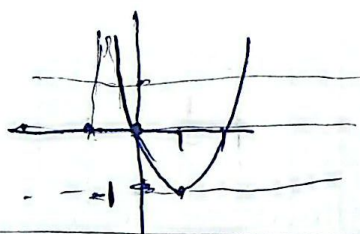
ب) $y(\frac{m}{2} - [\frac{m}{2}]) \Rightarrow$



⑧ الف) $[|n-1|]$



ب) $[n^2 - 2m]$



⑨ $a + [b] = 4.2 \Rightarrow [a] + [b] = 4$
 ~~$-[a] + [b] = 4$~~
 $b - [a] = 2.4 \Rightarrow -[a] + [b] = 2$
 $a + b = 4.4$

$\left. \begin{array}{l} [a] + [b] = 4 \\ [b] = 2 \end{array} \right\} \Rightarrow \left. \begin{array}{l} [a] = 1 \\ [b] = 2 \end{array} \right\} \Rightarrow \left. \begin{array}{l} b - 1 = 2.4 \Rightarrow b = 3.4 \\ a + 2 = 4.2 \Rightarrow a = 1.2 \end{array} \right\}$

⑩ $(1 + \sqrt{x})^4 = t \quad t + \frac{1}{t} = 171 \Rightarrow \frac{1}{t} = 171 - t$
 $\Rightarrow (1 + \sqrt{x})^4 = t \Rightarrow (1 + \sqrt{x})^4 = 171 - t$
 $\Rightarrow (1 + \sqrt{x})^4 = 171 - (1 + \sqrt{x})^4$
 $\Rightarrow 2(1 + \sqrt{x})^4 = 171$
 $\Rightarrow (1 + \sqrt{x})^4 = 85.5$
 $\Rightarrow 1 + \sqrt{x} = \sqrt[4]{85.5} \approx 3.1$
 $\Rightarrow \sqrt{x} = 2.1$
 $\Rightarrow x = 4.41$

محمد رفیق