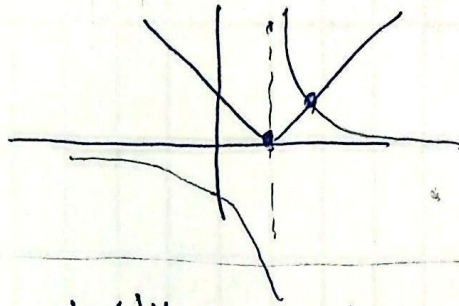


کلاس بازرگانی

۱۸، ۷۵

گروه ریاضی

① $\frac{1}{n-1} = |n-1| \Rightarrow$



نکته
ن=۲ ✓

۲)

② الف) $\left| \frac{n-1}{n} \right| < 2 \Rightarrow |n-1| < |2n| \Rightarrow (n-1-2n)(n-1+2n) < 0$
 $\Rightarrow n > \frac{1}{3}$ ✓

۲)

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

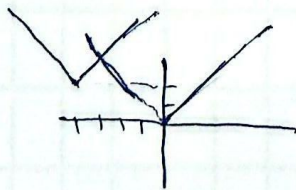
③ $n^2 < |n+2|$
 $n^2 = n+2$
 $-2 < n < 2$
 $\frac{-2+2}{2} = 0.5$
 $|x=0.5|$ ✓ $|n-0.5| < 1.5$

۲)

④ بررسی: ۳: ۱، ۰، ۲
 بررسی: ۱: ۱، ۰، ۲
 $2-1=1$ ✓

۲)

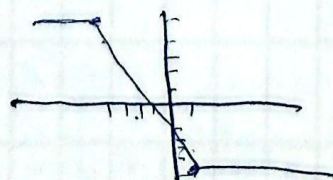
⑤ $\left| \frac{1}{2}(n+2) \right| + 1 = \left| \frac{1}{2}n \right|$
 $|n+2| + 2 = |n|$



$\Rightarrow n+2+2 = -n$
 $2n = -4$
 $n = -2$ ✓

۲)

⑥ الف) $[|n-1| - |n+2|]$

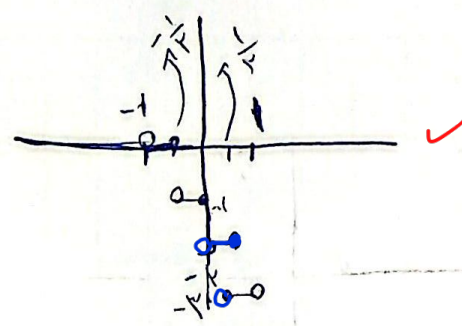


$R_f = \{-\infty, -4, -2, -1, 0, 1, 2, 3, \infty\}$ ✓

۲)

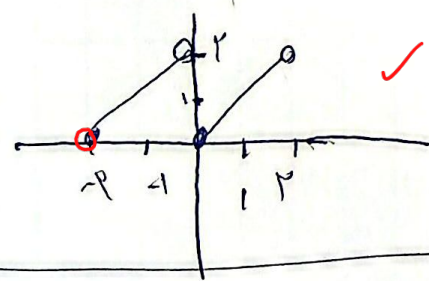
ب) $\frac{1}{n} = \left[\frac{1}{n} \right] - 1$ $0 < \{t\} < 1 \Rightarrow -1 \leq \frac{1}{n} - \left[\frac{1}{n} \right] - 1 < 0$ $R_f = [-1, 0)$ ✓

⑦ الف) $y = [-m] - 1$

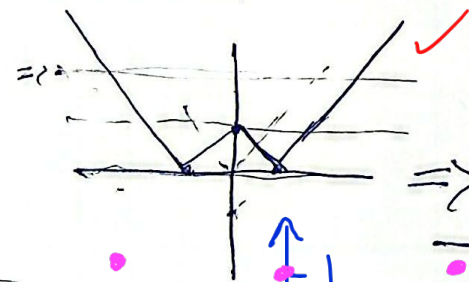


(1, 1.5)

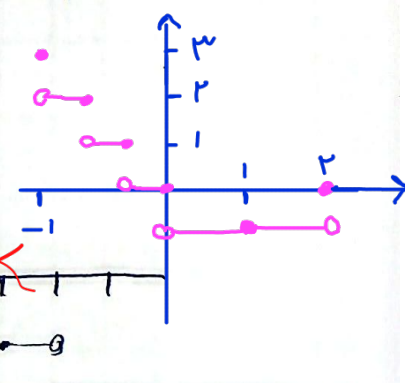
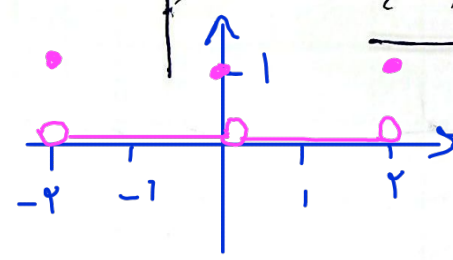
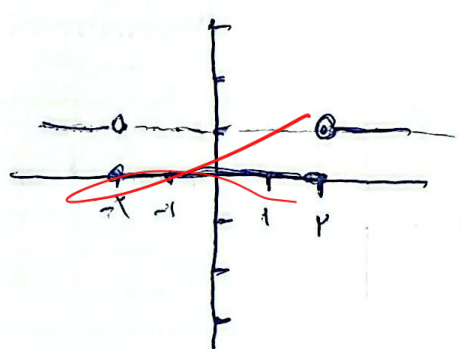
ب) $y(\frac{m}{2} - [\frac{m}{2}]) \Rightarrow$



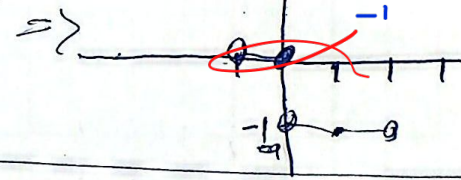
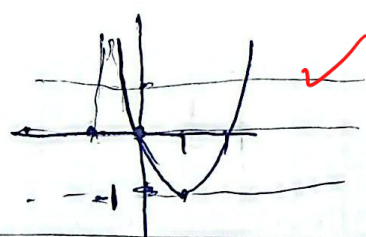
⑧ الف) $[|m-1|]$



(1)



ب) $[m^2 - 2m]$



⑨ $a + [b] = 4.2 \Rightarrow [a] + [b] = 4$
 $b - [a] = 2.4 \Rightarrow -[a] + [b] = 2$
 $a + b = 4.4$ ✓
 $[a] = 1$
 $[b] = 3$
 $b - 1 = 2.4 \Rightarrow b = 3.4$
 $a + 3 = 4.2 \Rightarrow a = 1.2$ ✓
 (2)

⑩ $(1 + \sqrt{x})^4 = t \Rightarrow t + \frac{1}{t} = 171$
 $\Rightarrow \frac{1}{t} = 171 - t$
 $\Rightarrow (1 + \sqrt{x})^4 = t$
 $\Rightarrow (1 + \sqrt{x})^4 = 171$ ✓
 (2)

گفتنی ریاضی