

Subject:

Year.

Month.

Date.

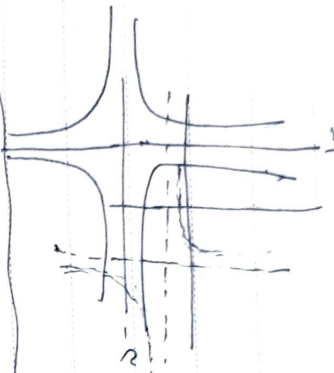
()

① $f(x) = |x - c| + 1$

$\rightarrow |x(x+k) - c| + 1 \rightarrow |x^2 + kx - c| + 1 \rightarrow |x^2 + kx - c| - 1$

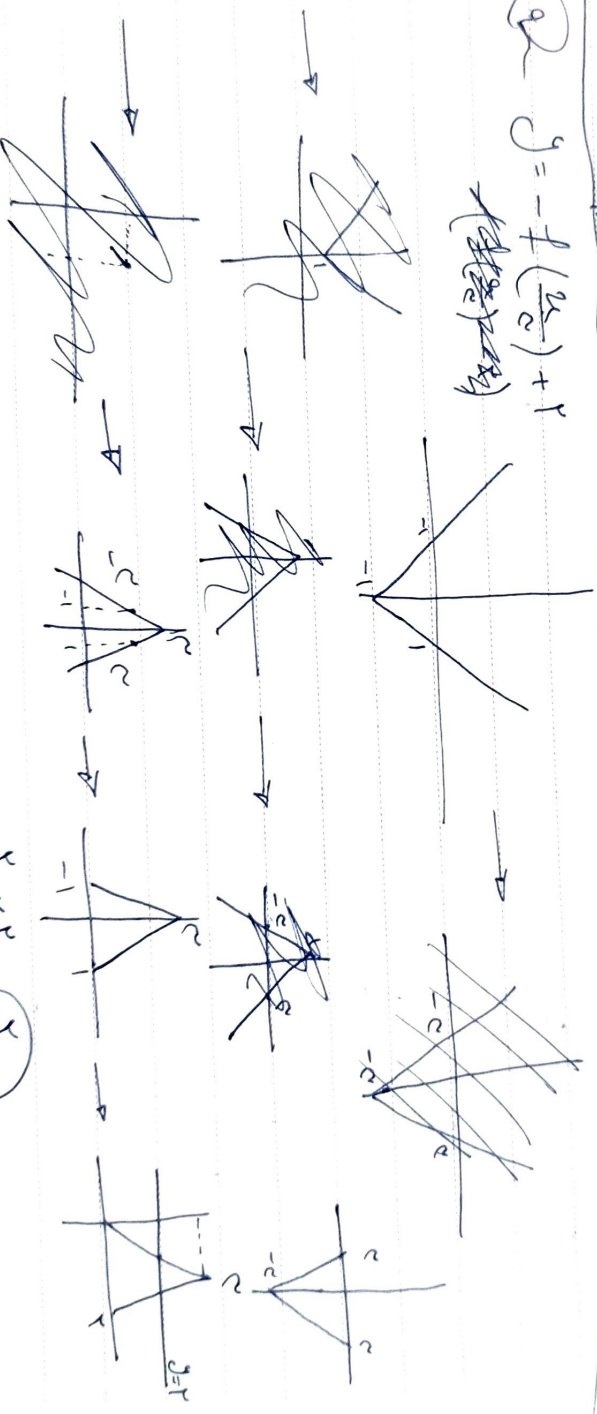
$| -c | + 1 = |xk - r| - 1 \rightarrow xk - c = r \rightarrow \boxed{k = \frac{r+c}{x}}$

2 $f(x) = \frac{yx-1}{x+1} \rightarrow \frac{-yx+1}{x+1} \rightarrow \frac{-\frac{1}{c}x+1}{\frac{1}{c}x+1}$



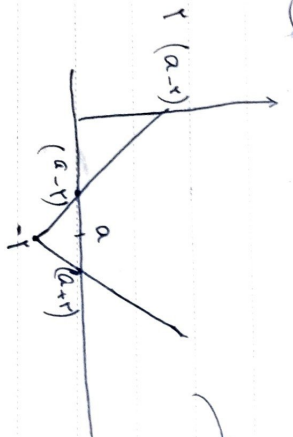
$c = \frac{1}{x}$

2 $y = -f\left(\frac{y}{c}\right) + r$



$\frac{y \times r}{c} = \frac{y}{\frac{1}{c}}$

1 $f(x) = |x - a| - r$



$\frac{c \times r}{c} = \frac{y \times (a-x)}{c} = \frac{a}{r} \rightarrow a = \frac{a}{r}$

$\frac{11}{10} = \frac{1}{\frac{1}{10}} = \frac{1}{10}$

$| \frac{y}{a} - \frac{a}{r} | - r$

Subject :

Year .

Month .

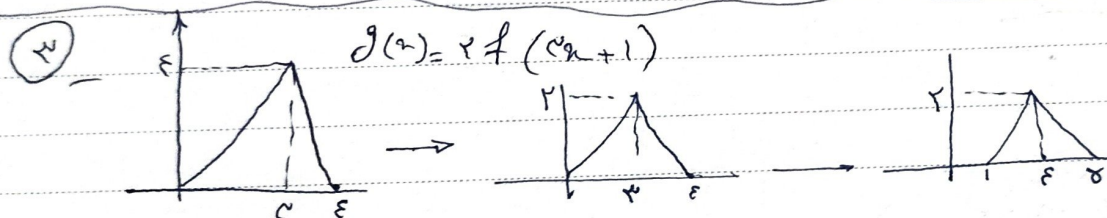
Date .

()

① $f(x)$ $f(x-r)$
 $\rightarrow$ $[-\epsilon, \epsilon]$ $\rightarrow -\epsilon \leq x-r \leq \epsilon \rightarrow -r \leq x \leq r$
 $\rightarrow$ $\left(-\frac{r}{\epsilon}\right) \leq x \leq \left(\frac{\epsilon}{r}\right)$

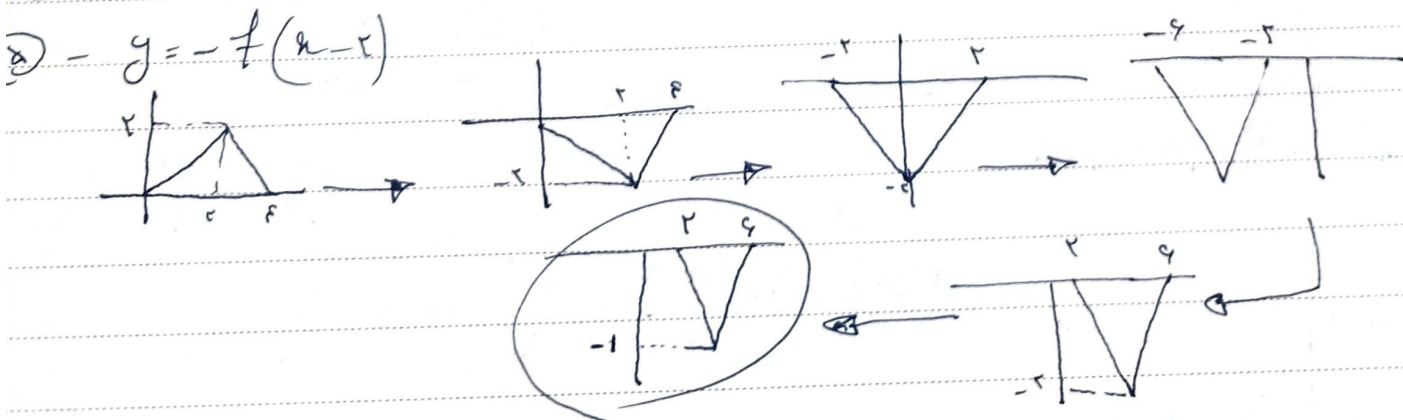
$\rightarrow$ $f(x-r)$ $\rightarrow$ $[-\epsilon, \epsilon]$
 $\rightarrow$ $-\epsilon \leq x-r \leq \epsilon$
 $\rightarrow$ $-\epsilon \leq x-r \leq -1$

② $f(x) = x + \sqrt{x-1}$ $\rightarrow y = x-r + \sqrt{x-\epsilon} \rightarrow x-r + \sqrt{x-\epsilon} = r$
 $\sqrt{x-\epsilon} - r = 0 \rightarrow x-\epsilon = r^2 \rightarrow x = r^2 + \epsilon$



$\rightarrow$ $(10-c) \times r = r\epsilon$

④ $A(r, -c)$ $y = a + r f\left(\frac{x-a}{r}\right)$
 $y = f(x)$



$y = \int_{-r}^r f(x-r) dx$

-r	0	1	r
-	+	-	+

$x \in [-r, 0] \cup [1, r]$