پاسخ تشریحی — تحلیلی شماره ۷ — دوازدهم ریاضی A

۱- $y = -\frac{1}{3}x^2 + \frac{2}{5}x + 1 \Rightarrow x_S = \frac{3}{5} \Rightarrow x'_S = 4$

$\Rightarrow (x - 2\frac{3}{5})$, $y_S = \frac{\frac{28}{75}}{-\frac{1}{3}} = \frac{28}{25}$

$\frac{w}{5}$

$\Rightarrow y'_S = 3 \Rightarrow y + \frac{47}{25}$

$x_2 = 7$

$\Rightarrow y' = -\frac{1}{3}x^2 + \frac{8}{3}x - \frac{7}{3} \Rightarrow x_1 = 1$

۲- $(1, 4) \Rightarrow f(x) = (x-3)(x+1) \Rightarrow 1 - 2f(3x+2)$

$= 1 + 2(3x-1)(3x+3) = 18x^2 + 12x - 5 \Rightarrow x = -\frac{1}{3}$

$\Rightarrow A = (-\frac{1}{3}, 7) \Rightarrow -\frac{1}{3}x + 7$, $y = 7$

$l = \frac{7}{3}$

۳- $3 - \sqrt{2(x+1)} \Rightarrow \sqrt{2x+2} + 3 \Rightarrow \sqrt{2x+2} + 2$

$= \frac{7}{2} \Rightarrow \sqrt{2x+2} = \frac{3}{2} \Rightarrow 2x + 2 = \frac{9}{4}$

$\Rightarrow x = \frac{1}{8}$

$D_f = (a, 2] \Rightarrow D_g = [-1, b) \Rightarrow D_{f(x-1)} = (a+1, 5]$ -3

$\Rightarrow D_{g(x+1)} = [-2, b-1) \Rightarrow D_{g(x+1)} \cap D_{f(x-1)}$

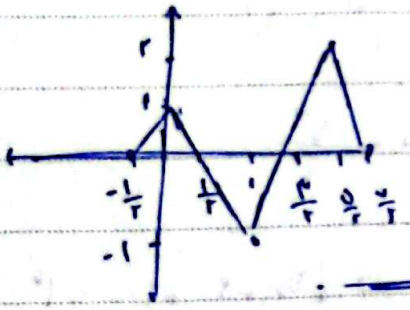
$= (-2, 5) \Rightarrow a+1 = -2 \Rightarrow a = -3,\ b-1 = 5 \Rightarrow b = 6$

$-3-6 = -9$

$y_1 = f\left(\frac{x}{2}+1\right) = f\left(\frac{1}{2}(x+2)\right) \xrightarrow{x-2} f\left(\frac{x}{2}\right)$ -5

$\frac{x}{2}$, $f(x) \to \left[-\frac{1}{2}, \frac{1}{2}\right]$

$D_{y_1} \in \left[-\frac{1}{2}, \frac{1}{2}\right] \Rightarrow R_{y_2} = [0, \sqrt{5}]$



$y = \frac{x}{a}[ax]$ ——— $(-b, -c]$ ——— $-dx$ -9

$a = -2 \to -\frac{x}{2}[-2x]$ $(-c, 0]$ ——— 0

$\Rightarrow b = 1,\ c = \frac{1}{2}$ $\Rightarrow d = 1$

$\Rightarrow 1 + 2 = 3$ $(0, c]$ ——— $\frac{1}{2}dx$

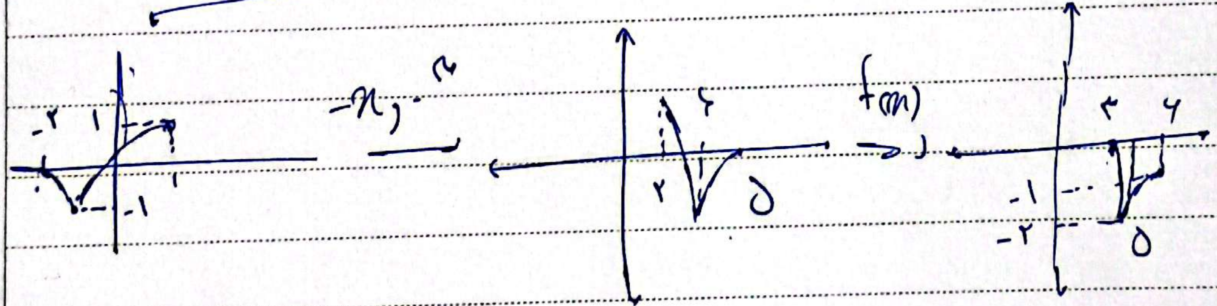
$(c, b]$ ——— dx

۷- $f(x) = x + ۲ \Rightarrow ۱: -f \Rightarrow ۲: -f + ۴ \Rightarrow ۳: -x \Rightarrow ۴: -۴ y \frac{۲-x}{۲}$

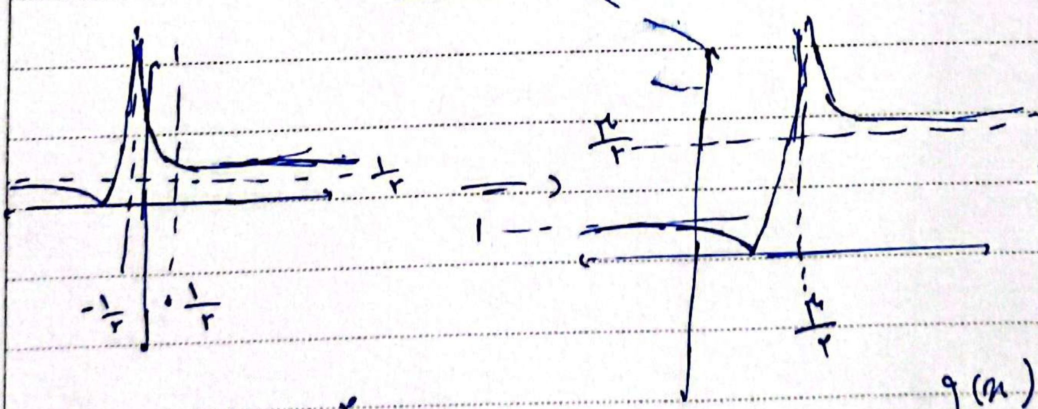
$\Rightarrow y(x) \Rightarrow \left(۴ - y \frac{۱۴}{۲}\right) + \left(۴ - y \frac{۴۴}{۲}\right) = ۱, ۲, ۴$

$-۱ \quad -۴$

۸- $۲ - y(۴ - x) \Rightarrow ۱: -y \quad x - ۱ \Rightarrow f(۴ - x)$



۹-



$\left|\frac{۴x - ۲}{۲x - ۴}\right|$

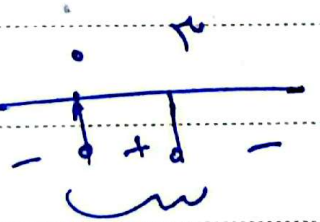
$g(x) =$

$\Rightarrow x = \left|\frac{۴x - ۲}{۲x - ۴}\right| < ۰ \Rightarrow$ [illegible]

$\Rightarrow x < ۰, \ x \in (-\infty, ۰)$

$g(x) \sqrt{f(x)(12-f(x)}$ pf $f(x)=0 \Rightarrow x \geq 0$ -b

pf $f(x) \neq 12 \geq 0 \Rightarrow x = 4$

$\Rightarrow$ 

$\Rightarrow x \geq 0$ $x \neq 4$

$0 \leq x < 4$