

نام و نام خانوادگی: پاسخنامه تشریحی تکلیف شماره ۲ کلاس: ریاضی B

$$(الف) \quad 3x - 2 = -4 \Rightarrow 3x = -2 \Rightarrow x = -\frac{2}{3} \quad x \in \left[-\frac{2}{3}, \frac{4}{3}\right]$$

$$3x - 2 = 2 \Rightarrow 3x = 4 \Rightarrow x = \frac{4}{3}$$

$$(ب) \quad x = -4 \quad 3x - 2 = 3(-4) - 2 = -14$$

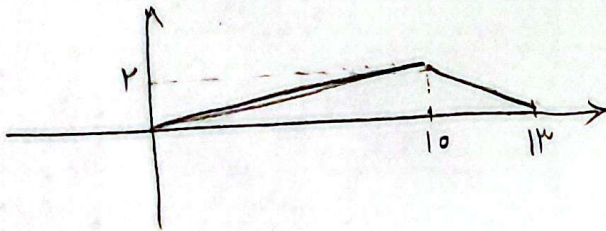
$$x = -2 \quad 3x - 2 = 3(-2) - 2 = -8 \quad x \in [-14, -1]$$

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$$x - 2 + \sqrt{x - 4} = x \Rightarrow \sqrt{x - 4} = 2 \Rightarrow x - 4 = 4 \Rightarrow x = 8$$

۲. $y = x$ را با دایره تابع خود تابع را قطع کرده و نیازی به وارد کردن برای پیدا کردن آن نقطه نیست!

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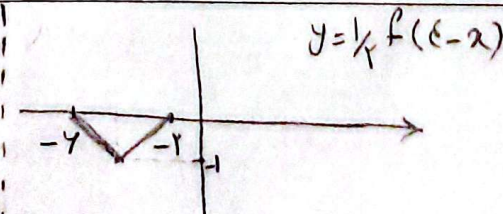
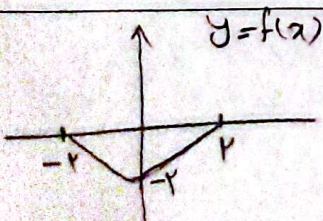
$$S = \frac{13 \times 2}{2} = 13$$

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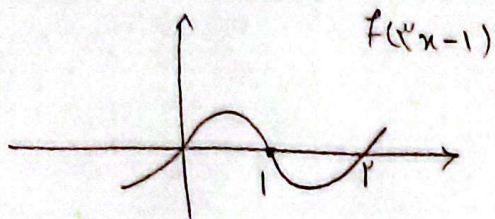
$$A' = \begin{vmatrix} 4+a \\ a-7 \end{vmatrix}$$

$$a - 4 = 2(4 + a) - 1 \Rightarrow a - 4 = 2a \Rightarrow a = -4$$

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	-1	0	1	2
$-(x+1)$	+	0	-	-
$f(x-1)$	-	-	0	+
		+		+

$$x \in [-1, 0] \cup [1, 2]$$

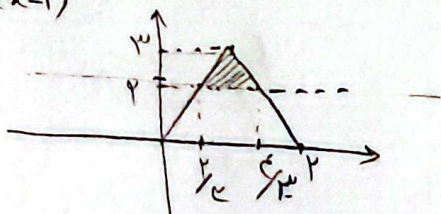
$$g(x) = |r(x+k) - r| - r, \quad f(0) = g(0)$$

$$x=0 \quad |r(k) - r| - r = |-r| + 1 \Rightarrow |rk - r| = r \Rightarrow rk - r = \pm r$$

$$rk = r \Rightarrow k = \frac{r}{r}$$

$$rk = -r \Rightarrow k = -\frac{r}{r}$$

$$y = f(x-1)$$



$$S = \frac{r \times 1}{2} = \frac{1}{2}r$$

$$\frac{(a-r)(a-r)}{r} + \frac{r(x)}{r} = \frac{r}{r}$$

$$\frac{(a-r)r}{r} = \frac{1}{r} \Rightarrow a - (a+r) = 1 \Rightarrow a^2 - (a+r) = 0$$

$$(a-1)(a-r) = 0 \Rightarrow a=1 \quad \text{or} \quad a=r$$

$$f(x) = |x-r| - r \quad f\left(\frac{1}{r}\right) = \left|\frac{1}{r} - r\right| - r = \frac{1}{r} - r - r = \frac{1}{r} - 2r$$