

دوازدهم دفتر
B

تکلیف شماره ۵

مرتکب آقای

$$-2 < x < 8$$

↓

$$-2 < t < 8$$

$$-2 < \frac{x+2}{5} < 8$$

$$-10 < x+2 < 40$$

$$-12 < x < 38 \rightarrow -8 < x < 6$$

$$D_f = [-8, 6]$$

1

$$-2 < x < 10$$

↓

$$-6 < 3x < 30$$

↓

$$-2 < x < 10$$

$$D_f = [-2, 10]$$

2

$$[-2, 10] \rightarrow -2 < x < 10$$

3

$$[-1, 1] \rightarrow -1 \leq x \leq 1$$

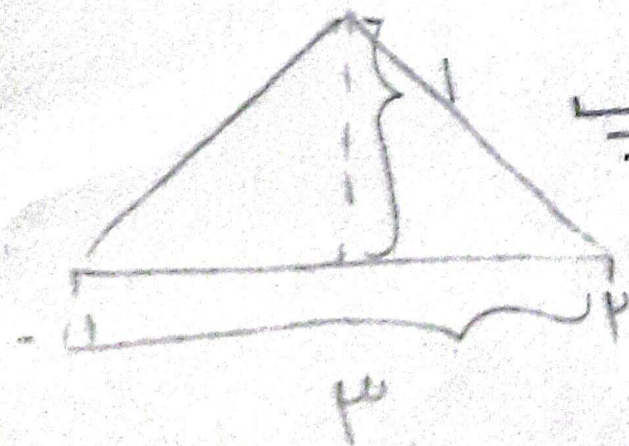
$$\downarrow$$

$$-1 \leq x \leq 1 \rightarrow -1 \leq x+1 \leq 2 \rightarrow -1 \leq \frac{x+1}{2} \leq 1$$

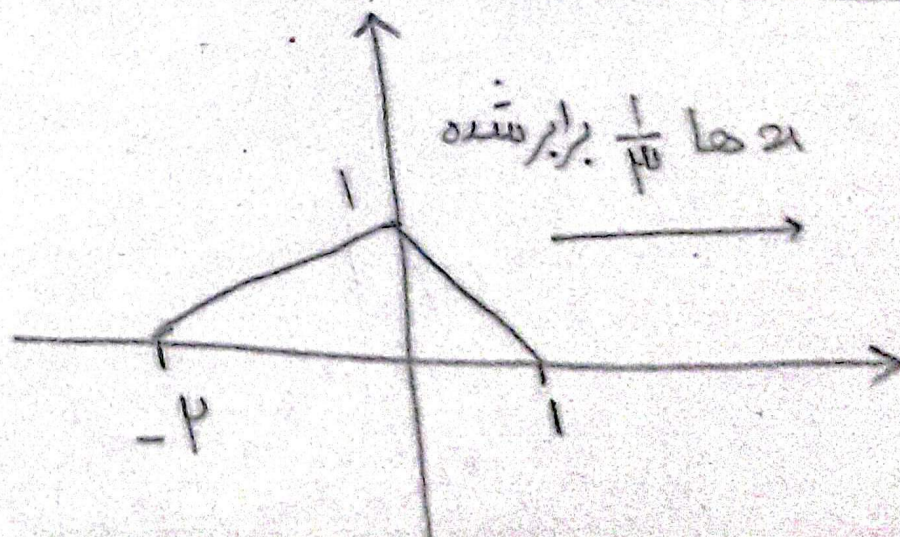
$$-1 \leq x \leq 1 \rightarrow -1 \leq -x \leq 1 \rightarrow \frac{1}{2} \geq x \geq -\frac{1}{2}$$

$$D_f = \left(-\frac{1}{2}, \frac{1}{2}\right]$$

3



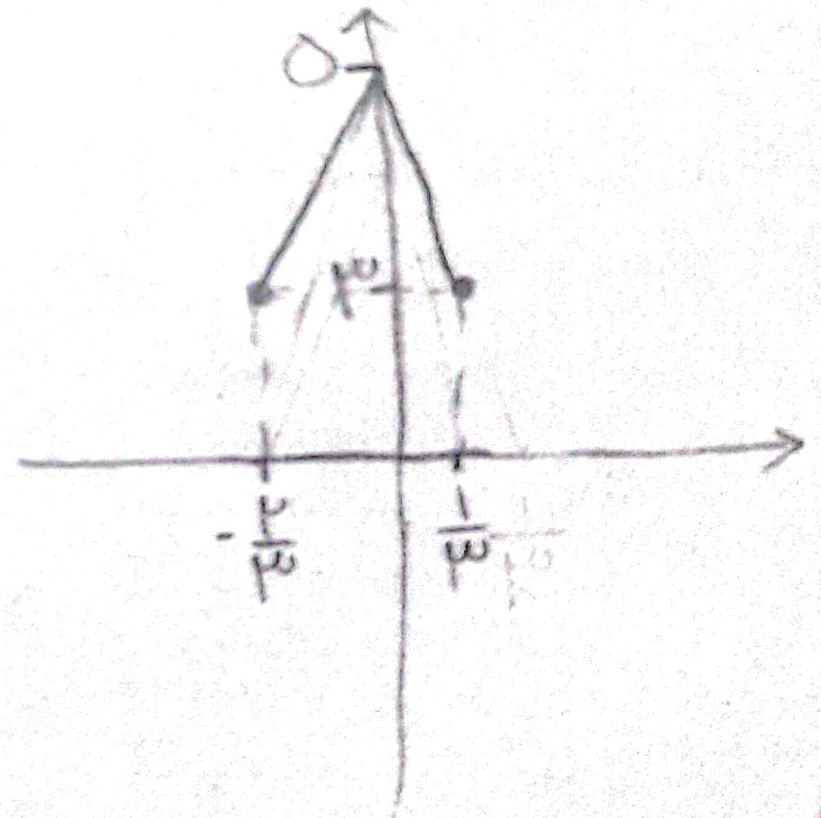
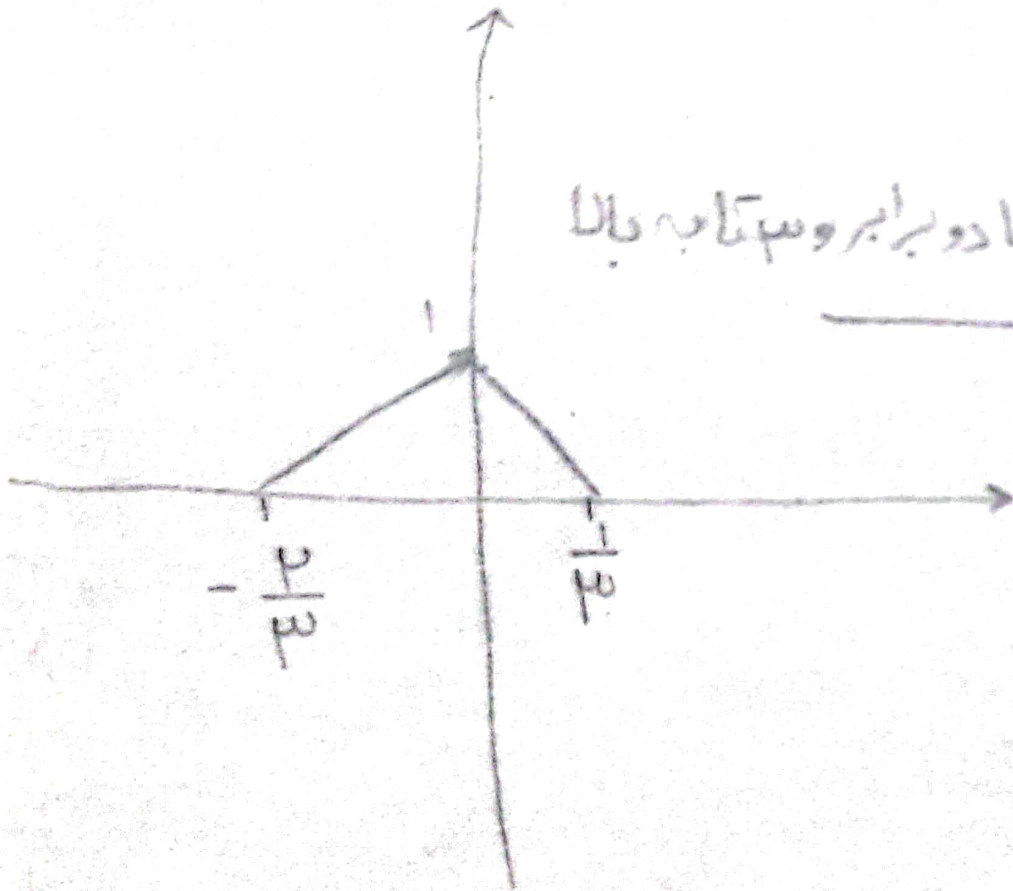
1 و 1 به ضلع



1 و 1 به ضلع

4

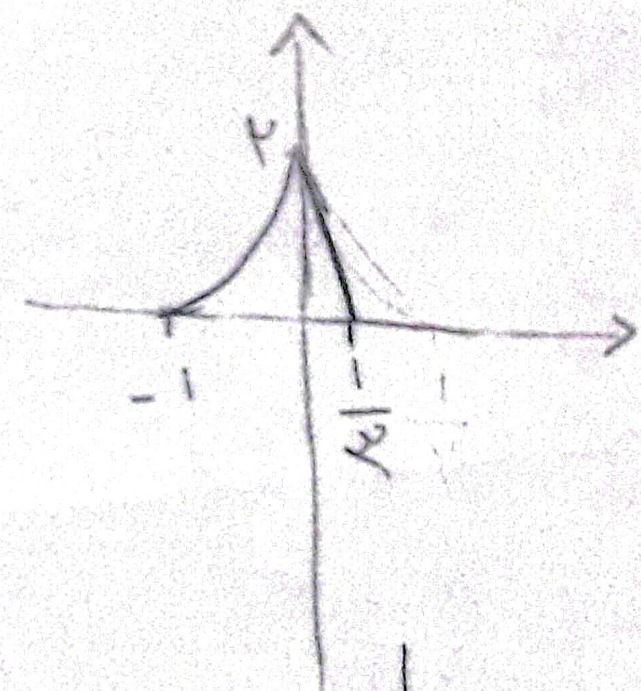
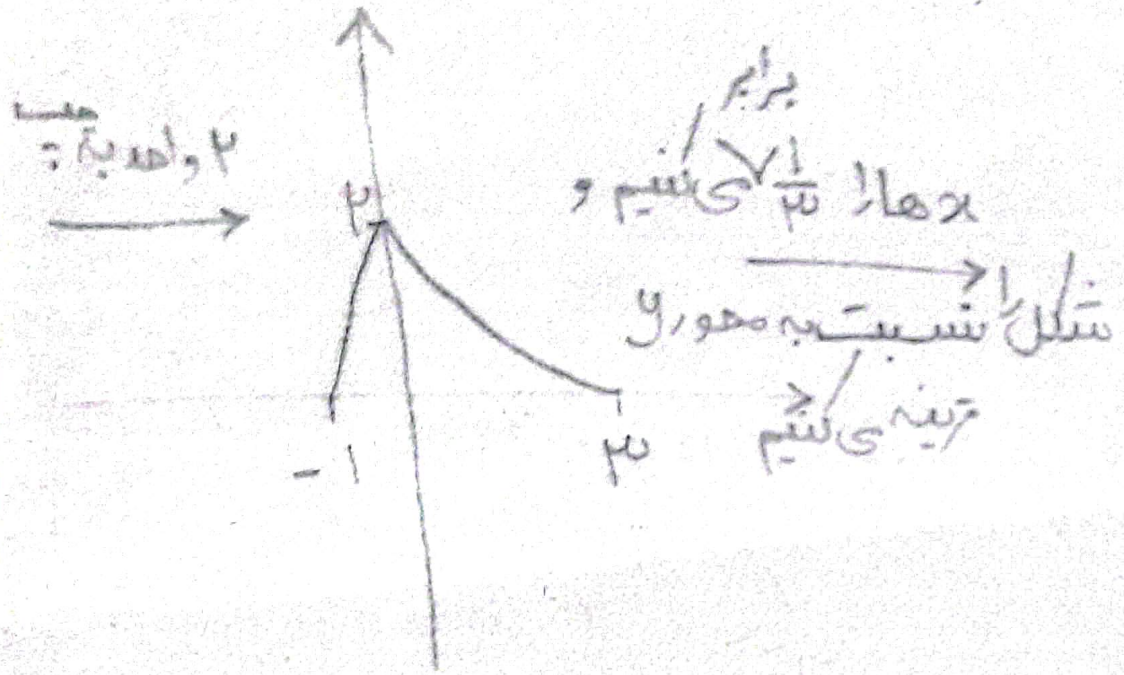
یها دو برابر و سه تا به بالا



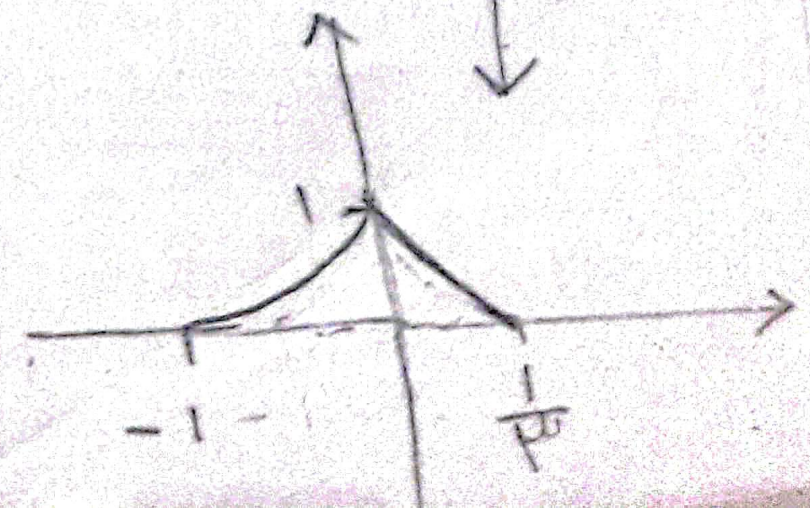
برابر



5



و ها نصفی



چون ضرب a^2 $\frac{1}{10}$ - است پس $a(x-h)^2 + k$ است
 $a = -\frac{1}{10}$

چون انتقال فقط مکان نقطه
 تغییر داده پس a تغییر نمی
 کند

$$-\frac{1}{10}(x-k)^2 + 10 = 0$$

$$(x-k)^2 = 9$$

$$x - k = \pm 10$$

$$x = 7 \quad x = 1$$

$$7 - 1 = 6$$

$$v-1=6$$

رأس
سری
♀ $\rightarrow (1, 4)$

$$\alpha B = \frac{1}{\mu}$$

7

دایره ۲ واحد به چپ رفته و $\frac{1}{\mu}$ برابر شده $\rightarrow 1 - 2 = -1 \times \frac{1}{\mu} = -\frac{1}{\mu} = \alpha$

بر ۲ - برابر شده و 1 واحد بالا رفته $\rightarrow 4x - 2 = -2 + 1 = -1 = B$

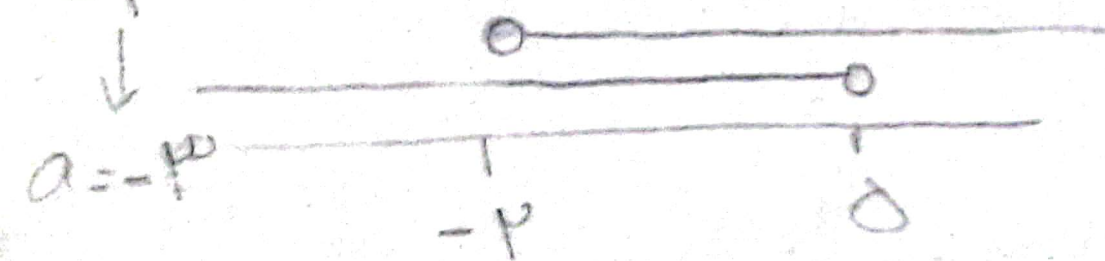
$$a < x - 1 < \varepsilon$$

$$-1 < x + 1 < b$$

$$\underbrace{a+1}_{-1} < x < 0$$

$$-1 < x < \underbrace{b-1}_0$$

$$a \rightarrow b = -9$$



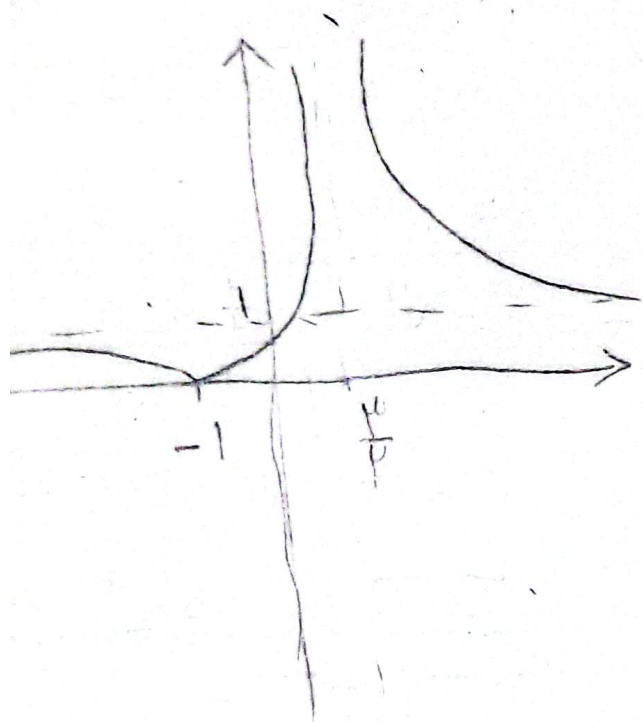
$$a - b = -9$$

$$f\left(\frac{x}{p} + 1\right) = y \xrightarrow{x \frac{1}{p} + 1} \left[-\frac{1}{p}, \frac{p}{p}\right]$$

$$\sqrt{|f(x) - \mu|} = y \rightarrow \sqrt{|f(p) - \mu|} = \sqrt{1} = 1$$

$$\sqrt{|f(-1) - \mu|} = \sqrt{5}$$

$$R_f = [1, \sqrt{5}]$$

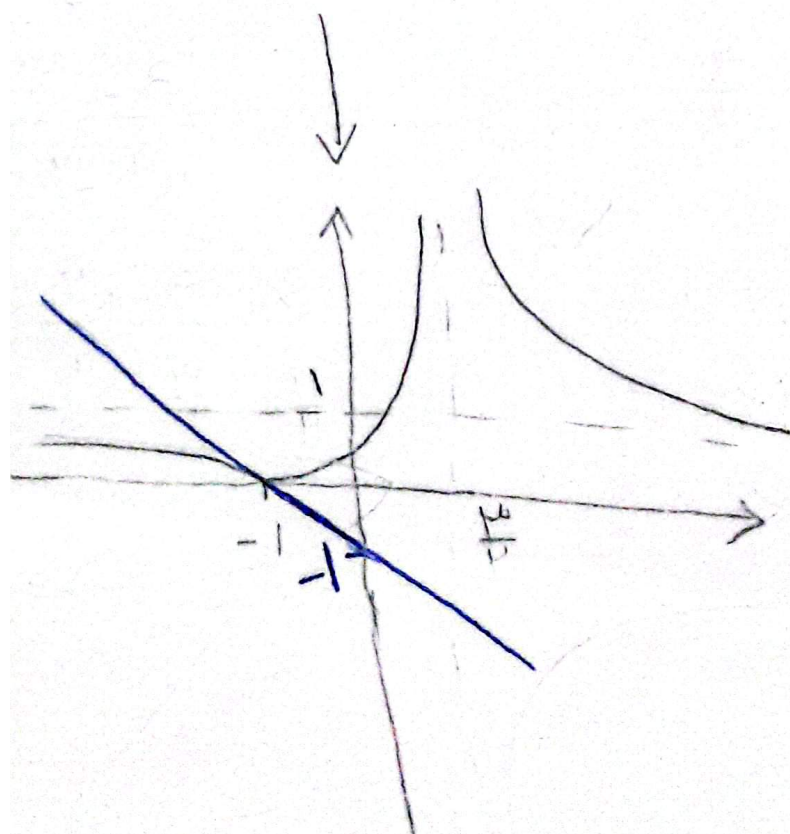


$$g(x) = \left| \frac{x-1}{x-10} \right| + 1$$

$$g(x) + x < 0$$

$$g(x) < -x$$

$$\left| \frac{x-1}{x-10} \right| < -x-1$$



$$(-\infty, -1]$$