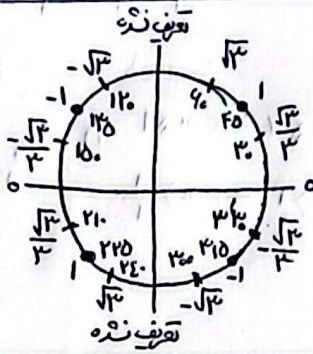
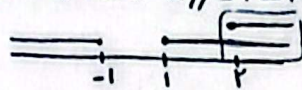
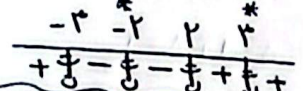


$\tan \Rightarrow$ زاویه



$y = \sqrt{x^2-1} + \sqrt{x-2} \Rightarrow x^2-1 \geq 0 \Rightarrow x^2 \geq 1 \Rightarrow x \geq \pm 1 \Rightarrow (-\infty, -1] \cup [1, +\infty)$ $x-2 \geq 0 \Rightarrow x \geq 2 \Rightarrow [2, +\infty)$  $[2, +\infty)$	6
$y = \frac{\sqrt{4-x}}{\sqrt{4x-2}} \Rightarrow \begin{aligned} 4-x &\geq 0 \Rightarrow x \leq 4 \\ 4x-2 &\geq 0 \Rightarrow x \geq \frac{1}{2} \end{aligned} \xrightarrow{\cap} \left(\frac{1}{2}, 4\right]$	7
$y = \sqrt{4x-a} + \sqrt{b-3x}$ $D = \{x\} \Rightarrow \begin{aligned} 4x-a &= 0 \Rightarrow a = 12 \\ b-4 &= 0 \Rightarrow b = 4 \end{aligned} \quad \frac{b}{a} = \frac{4}{12} = \left[\frac{1}{3}\right]$	8
$y = \sqrt{\frac{x^2-x-4}{x^2-13x^2+44}} \Rightarrow \begin{aligned} x^2-x-4 &\rightarrow \Delta = 1+16=17 \rightarrow \frac{1 \pm \sqrt{17}}{2} = x_1, x_2 \\ x^2-13x^2+44 &\rightarrow (x^2-4)(x^2-9) \rightarrow (x-2)(x+2)(x-3)(x+3) \end{aligned}$  $\Rightarrow (-\infty, -3) \cup (-2, 2) \cup (3, +\infty)$	9
$y = \sqrt{2[x]-4} \Rightarrow 2[x]-4 \geq 0 \Rightarrow 2[x] \geq 4 \Rightarrow [x] \geq 2 \Rightarrow [x] \geq 2 \rightarrow [2, +\infty)$ $y = \sqrt{2[x]-0} \Rightarrow 2[x]-0 \geq 0 \Rightarrow 2[x] \geq 0 \Rightarrow [x] \geq 0 \Rightarrow [x] \geq 0 \rightarrow [0, +\infty)$	10