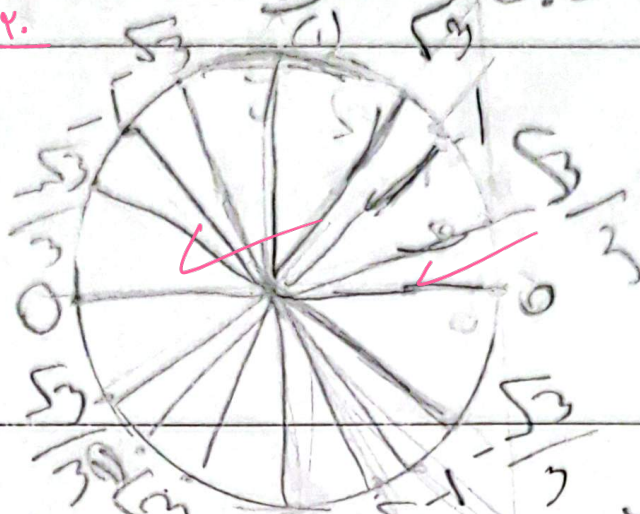


۲۰. آفرین ولی لطفاً از هفتای
بدی مرتب بنویس و اگر نتوانستی
ازت نمره کم می‌کنم !!!



$$1) \frac{1}{2} + (-1) + 2(-1) = -\frac{1}{2}$$

$$2) -\frac{1}{2} + \frac{1}{2} + \frac{1}{2} - 3(-\frac{1}{2}) = \frac{3}{2}$$

$$3) -\frac{1}{2} + \frac{1}{2} + \frac{1}{2} - 2(-\frac{1}{2}) = \frac{3}{2}$$

$$x = 0$$

$$x^2 + x - 2 = 0 \Rightarrow (x+2)(x-1) = 0$$

$$1^2 + 4 = 5$$

$$x+1 \geq 2 \Rightarrow x \geq 1$$

$$x \geq 1, x \leq -3$$

$$1(-3) = 18 - 6$$

$$2(-3) = a - 6$$

$$18 + 6 = a \Rightarrow 24 = a$$

$$x^2(x-4) = 0 \Rightarrow x = 0, 4$$

$$2x(x+2) + 2(x+2) = (x+2)(2x+2)$$

$$= 2(x+1)(x+2)$$

$$x(x+1) \geq 0 \Rightarrow x \geq -1 \vee x \leq 0$$

$$x > 2 \Rightarrow x \in (2, +\infty)$$

$$-1 \leq x \leq 0 \Rightarrow x \in [-1, 0]$$

$$6x - 3 > 0 \Rightarrow x > \frac{1}{2} \Rightarrow x \in (\frac{1}{2}, +\infty)$$

$$x > \frac{a}{6} \vee x \leq \frac{b}{3} \Rightarrow x \in \left(\frac{a}{6}, \frac{b}{3} \right]$$

$$\frac{a}{6} = 2 \Rightarrow a = 12 \quad \frac{b}{3} = 2 \Rightarrow b = 6$$

$$y = \frac{(x-3)(x+2)}{(x-3)(x+3)(x-2)(x+2)}$$

$$(x-1)(x^2+x-6) = 0 \Rightarrow x = 1, 3, -2$$

$$(x-1)(x^2+x-6) = (x-1)(x-3)(x+2)$$

$$D = (-\infty, -3) \cup (-2, 1) \cup (2, 3) \cup (3, +\infty)$$

$$2[x] - 4 > 0 \Rightarrow [x] > 2 \Rightarrow x > 2$$

$$\Rightarrow D = [2, +\infty)$$

$$\Rightarrow 2[x] - 5 > 0 \Rightarrow [x] > 2.5 \Rightarrow x > 3$$

$$\Rightarrow D = [3, +\infty)$$

$$x+1 \geq 0 \Rightarrow x \geq -1$$

$$\frac{1-x}{x^2+2x+4} \geq 0 \Rightarrow x \leq 6$$

$$[x] - 4 > 0 \Rightarrow x > 4$$

$$2[x] > 0 \Rightarrow [x] \leq 3$$

$$D = \emptyset$$