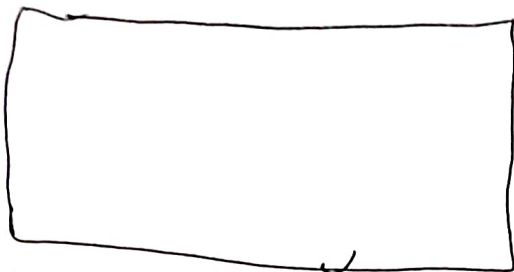


۱)
(۳)



با کلاس نرینه ها

نرینه ۳ درست است

برای نرینه ها مقدارون رسم کنیم متوجه شویم نرینه سوم درست است

$$\frac{(2)}{(4)} \quad n^2 + \left(\frac{2-2a}{2a}\right)n = \frac{1}{a} \rightarrow$$

$$\left(n + \frac{2-2a}{2a}\right)^2 = \frac{1}{a} + \frac{(2-2a)^2}{4a^2}$$

~~۹۱۵
۶۴۲
۱۲۱۲~~

$$\frac{2-2a}{2a} = -1/2 \rightarrow 2-2a = -1/2a \rightarrow 1/2a = 2$$

$$\rightarrow a = 5$$

$$b = \frac{1}{5} + \frac{149}{100} = \frac{390+149}{100} = \frac{539}{100} \rightarrow \sqrt{b} = \frac{23}{10}$$

$$4a - a^2 = 9 \rightarrow a^2 - 4a + 9 = 0 \rightarrow (a-2)^2 = 0$$

$$\rightarrow a = 2, \quad \frac{2}{n} = \frac{n+1}{n+2} \rightarrow n^2 + n = 2n + 9 \rightarrow$$

$$n^2 - 2n - 9 = 0 \rightarrow n = 1 \pm \sqrt{10}$$

۴) $a >$ است پس مختار از لول و لوم می نذرند عرض از مبدا مثبت است پس از نامه سوم می نذرند و نامه هم می نذرند نرینه

$$\textcircled{5} \quad D_f \cap D_g = \left\{ -1, 0, \frac{1}{4} \right\}$$

$$\text{دامنه مرتبة} \cap \text{دامنه فرج} = \left\{ 0, \frac{1}{4}, -1 \right\}$$

$$\text{رسمه فرج} \quad f + 2g = 0 \Rightarrow n = \frac{1}{4}$$

$$\text{---} \quad \frac{1}{4} = \left\{ 0, -1 \right\}$$

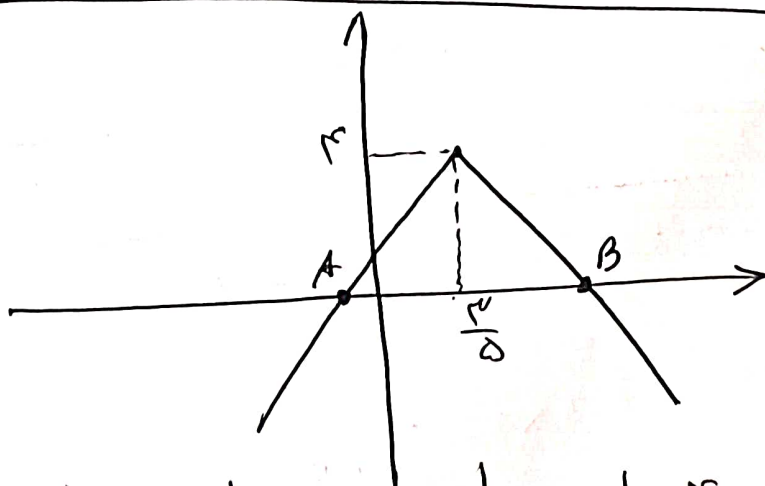
$$\textcircled{7} \quad y = ax^2 + 2x - 2 \quad \begin{matrix} x = -2 \\ y = -2 \end{matrix} \quad -2 = 4a - 4 - 2 \rightarrow$$

$$4a = 4 \rightarrow a = 1$$

$$n = \frac{-b}{2a} = \frac{-2}{2 \cdot 1} = \frac{-2}{2} = -1$$

نقطه مرتبه

✓
نقطه مرتبه



$$0 = 4 - |4n - 2| \rightarrow |4n - 2| = 4 \rightarrow 4n - 2 = -4$$

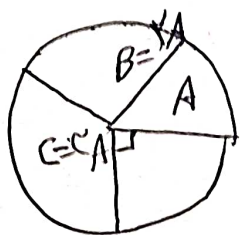
$$\rightarrow n = \frac{1}{4}, -\frac{1}{4} \Rightarrow AB = 2 \cdot \frac{1}{4} = \frac{1}{2} \quad \text{ارتفاع} = 4$$

$$\text{مساحت} = \frac{\frac{1}{2} \times 4}{2} = \frac{1}{2} = \frac{1}{2}$$

①
✓ $f = 94$

$\frac{f}{94} \times 100 = 90 \rightarrow \frac{f}{94} = \frac{1}{10} \rightarrow$

$f = 94 \rightarrow 94 - 94 = 0$



$9A = 90 \rightarrow A = 10$

$C = 90$

② ✓ $\frac{94}{100} = 94$

③ ✓ $\frac{a-d}{a} = \frac{d-c}{c} \quad a, c \neq 0$

$\frac{a-d}{a} = \frac{d-c}{c} \xrightarrow{a+c \neq 0} d = \frac{rac}{a+c}$

④ ✓ $P > 90 \Rightarrow CP \Leftrightarrow 9 \Rightarrow$

$\Rightarrow$ ✓ $\Rightarrow$ ✓

⑤ ✓ $(1+1) \times 10 = 2 \times 10 = 20 \rightarrow 10$

سنة ٢٠٢٠

(١٢)

$$12 \rightarrow 14 \rightarrow 16$$

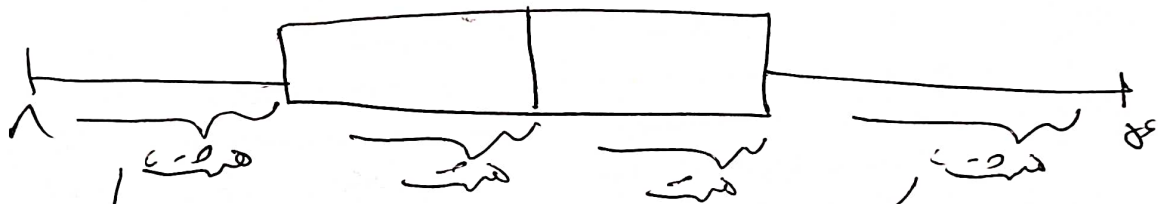
(١٣)

$$(1 + 11) \times 14 = 24 \times 14 = 10, 14$$

(١٤)

→ ٢٤

(١٥)



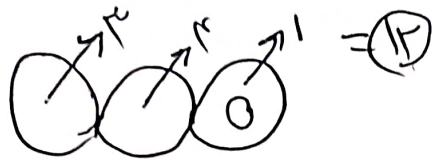
$$12 = \frac{12}{1} \Rightarrow 12 = 12$$

$$14 = \frac{14}{1} \Rightarrow 14 = 14$$

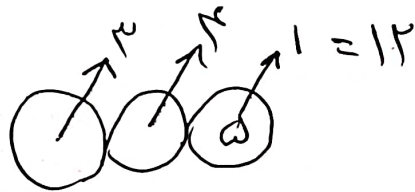
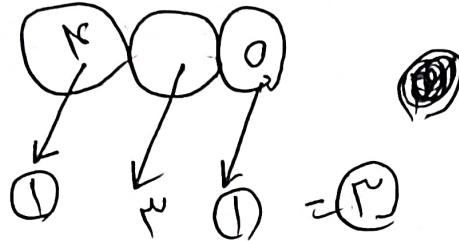
$$\frac{12}{12} = 1 \rightarrow 12 = 12 \rightarrow 12 = 12 + 1 + 14 = 27$$

$$12 - (12 + 14) = 12 - (26) = 12$$

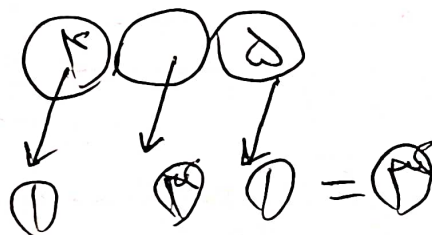
$$12 \div 14 = 1$$



$$\frac{(1d)}{r}$$



$$r = 14$$



$$\frac{(14)}{1}$$

$$a_1 = 1d \rightarrow a_r = 2 \times 1d - 1 = 1r \rightarrow 2r \rightarrow 11 \text{ (14)}$$

$$1r \rightarrow a_d = 1r \rightarrow 14 \rightarrow 11 \rightarrow 1r$$

$$a_r + a_r = 1r \rightarrow a + d + a + d = 1r \text{ (11)}$$

$$2a + 2d = 1r \rightarrow a + d = 14$$

$$a + d = 11 \rightarrow 2a + 2d = 11 \rightarrow a + d = 11$$

$$\begin{cases} a + 5d = 17 \\ a + 14d = 15 \end{cases}$$

(18)

$$d = -\frac{2}{9}, a = \frac{17}{9}$$

$$\frac{a}{d}, \frac{4}{d}, \frac{8}{d}, \dots \quad r = \frac{4}{17}$$

(19)

$$S = \frac{\frac{a}{d} \left[\left(\frac{4}{17} \right)^n - 1 \right]}{\frac{4}{17} - 1} = \frac{\frac{a}{d} (r^n - r^0)}{\frac{4}{17} - 1} = \frac{\frac{a}{d} (17^n - 1)}{17 - 4}$$

$$\frac{17}{17} S = \frac{17}{17} \times \frac{17 \times 19 \times 17}{17 \times 17} = \frac{17 \times 19}{17 \times 17} = \frac{19}{17}$$

$$0 < a < 1 \quad 0 < b < 1 \quad 0 < c < 1$$

(20)

ساخته شده 10 و 5 است

مقدار b^n با a^n برابر است پس $b = a$

پس درست است