

السؤال الأول :

$$١) \frac{p-q}{0} = 4 \quad ٢) \frac{p-q}{0} = 4 \quad ٣) \frac{p-q}{0} = 4$$

$$٤) \frac{p-q}{0} = 4 \quad ٥) \frac{p-q}{0} = 4 \quad ٦) \frac{p-q}{0} = 4$$

$$٧) \frac{p-q}{0} = 4 \quad ٨) \frac{p-q}{0} = 4 \quad ٩) \frac{p-q}{0} = 4$$

$$١٠) \frac{p-q}{0} = 4 \quad ١١) \frac{p-q}{0} = 4 \quad ١٢) \frac{p-q}{0} = 4$$

$$١٣) \frac{p-q}{0} = 4 \quad ١٤) \frac{p-q}{0} = 4 \quad ١٥) \frac{p-q}{0} = 4$$

$$١٦) \frac{p-q}{0} = 4 \quad ١٧) \frac{p-q}{0} = 4 \quad ١٨) \frac{p-q}{0} = 4$$

$$١٩) \frac{p-q}{0} = 4 \quad ٢٠) \frac{p-q}{0} = 4 \quad ٢١) \frac{p-q}{0} = 4$$

$$٢٢) \frac{p-q}{0} = 4 \quad ٢٣) \frac{p-q}{0} = 4 \quad ٢٤) \frac{p-q}{0} = 4$$

$$٢٥) \frac{p-q}{0} = 4 \quad ٢٦) \frac{p-q}{0} = 4 \quad ٢٧) \frac{p-q}{0} = 4$$

$$٢٨) \frac{p-q}{0} = 4 \quad ٢٩) \frac{p-q}{0} = 4 \quad ٣٠) \frac{p-q}{0} = 4$$

$$٣١) \frac{p-q}{0} = 4 \quad ٣٢) \frac{p-q}{0} = 4 \quad ٣٣) \frac{p-q}{0} = 4$$

$$٣٤) \frac{p-q}{0} = 4 \quad ٣٥) \frac{p-q}{0} = 4 \quad ٣٦) \frac{p-q}{0} = 4$$

$$٣٧) \frac{p-q}{0} = 4 \quad ٣٨) \frac{p-q}{0} = 4 \quad ٣٩) \frac{p-q}{0} = 4$$

$$٤٠) \frac{p-q}{0} = 4 \quad ٤١) \frac{p-q}{0} = 4 \quad ٤٢) \frac{p-q}{0} = 4$$

$$٤٣) \frac{p-q}{0} = 4 \quad ٤٤) \frac{p-q}{0} = 4 \quad ٤٥) \frac{p-q}{0} = 4$$

$$٤٦) \frac{p-q}{0} = 4 \quad ٤٧) \frac{p-q}{0} = 4 \quad ٤٨) \frac{p-q}{0} = 4$$

٩

$$2 = \pi \cdot 2^{\frac{\pi}{2}} \cdot r = \pi \cdot r \cdot 1 \Rightarrow r = \frac{2}{\pi}$$

$$b + p = r \cdot 2^{\frac{\pi}{2}} \cdot \frac{\pi}{2} + r \cdot 2^{\frac{\pi}{2}} \cdot \frac{\pi}{2} = \pi \cdot r \cdot 2^{\frac{\pi}{2}} = \pi \cdot \frac{2}{\pi} \cdot 2^{\frac{\pi}{2}} = 2 \cdot 2^{\frac{\pi}{2}} = 2^{\frac{\pi}{2}+1}$$

٥

$$\frac{11}{2} = r \cdot 2^{\frac{\pi}{2}} \cdot \frac{\pi}{2} = r \cdot (1 - \cos \frac{\pi}{2}) = r \cdot 1 = r$$

٩

$$c = 9 \leftarrow \text{محيط المثلث} = p = 9 \Rightarrow c = 9 \times 1 = 9$$

١٣

$$8 \leq 2 - 12 \leq 8 \Rightarrow 8 \leq 2 - 12 \leq 8 \Rightarrow 8 \leq 2 - 12 \leq 8$$

٩

$$c = 2 \times 8 = 16$$

$$f' = 1 + v \leftarrow v = 1 \leftarrow (1, 0) \Rightarrow f' = 1 + v = 1 + 1 = 2$$

٦

$$f' = 1 + v = (1 + \frac{1}{2} \times 1) \times \frac{1}{2} = \frac{3}{2}$$

٩

$$\frac{1}{2} = \text{احتمال ظهور صورة شبيهة في المرة القادمة} = \frac{1}{2} \Rightarrow p = \frac{1}{2} \Rightarrow c = 9 \times \frac{1}{2} = \frac{9}{2}$$

٥

$$1 = (1) \cdot 1 + (2) \cdot 1 + (3) \cdot 1 \Rightarrow 1 = 1 + 2 + 3 \Rightarrow 1 = 6$$

٥

$$r = 1 + h + c + h = 1 + 1 + 1 + 1 = 4$$

٥

$$1 = r = 1 + h = 1 + 1 = 2 \Rightarrow 1 = 2$$

٥

$$c = 9 \leftarrow p = 9 \Rightarrow c = 9 \Rightarrow c = 9$$

٥

اجابة السؤال الاول

١٠	٩	٨	٧	٦	٥	٤	٣	٢	١
أ	أ	د	ب	د	ب	ب	ج	أ	ج

٢٠	١٩	١٨	١٧	١٦	١٥	١٤	١٣	١٢	١١
ج	د	ج	ب	ب	أ	ج	د	أ	د

السؤال الثالث:

$$(4) \quad 0 = \sqrt{5-x} \quad \leftarrow \quad 0 = 5-x \quad \leftarrow \quad x=5$$

تقاطع مع $\sqrt{5-x}$ مع $y=0$

$$y = \sqrt{5-x}$$

$$y^2 = 5-x$$

$$y = 5-x+y$$

$$(x+y) = (1-x) \quad \leftarrow \quad x = 5-x \quad \leftarrow \quad 1 = (1-x) \quad \leftarrow \quad (1-x) \neq 1$$

$$2 = \int_0^1 (5-x) \cdot \frac{1}{\sqrt{5-x}} - \int_0^1 (1-x) \cdot \frac{1}{\sqrt{5-x}}$$

$$= \int_0^1 \frac{4}{\sqrt{5-x}} - \int_0^1 \frac{1}{\sqrt{5-x}} = \left[-\frac{4}{\sqrt{5-x}} \right]_0^1 - \left[-\frac{1}{\sqrt{5-x}} \right]_0^1$$

$$= \left[-\frac{4}{\sqrt{5-x}} \right]_0^1 - \left[-\frac{1}{\sqrt{5-x}} \right]_0^1 = \left[-\frac{4}{\sqrt{5-x}} + \frac{1}{\sqrt{5-x}} \right]_0^1$$

$$= \left[-\frac{3}{\sqrt{5-x}} \right]_0^1 = -\frac{3}{\sqrt{5-1}} + \frac{3}{\sqrt{5-0}} = -\frac{3}{2} + \frac{3}{\sqrt{5}}$$

نلاحظ أن حركة النقطة تحقق تعريف القطع الزائد

$$8-6 = 2, \quad 12-8 = 4, \quad 20-12 = 8, \quad 32-20 = 12, \quad 48-32 = 16, \quad 66-48 = 18$$

من إحدى البراهين هو قطع زائد سيني

$$1 = \frac{y^2}{5-x} - \frac{y^2}{5-x}$$

$$0 = 16 - 26 \quad \leftarrow \quad 0 = 16 - 26$$

$$1 = \frac{y^2}{5-x} - \frac{y^2}{5-x}$$

$$\frac{4}{5} = \frac{1}{5} = \frac{5}{5} = 1$$

(5) من عدد الكرات الحمراء المسحوبة

$$x = 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10$$

2	1	0
1	2	1

من كرات
دفع واحد

2	1	0	3
1/10	9/10	1/10	1/10

$$L(0) = \frac{\binom{2}{0}}{\binom{7}{0}} = \frac{1}{10}$$

$$L(1) = \frac{\binom{2}{1} \times \binom{2}{1}}{\binom{7}{1}} = \frac{4}{10}$$

$$L(2) = \frac{\binom{2}{2}}{\binom{7}{2}} = \frac{1}{10}$$

السؤال الرابع:

$$(4) \quad \left[\frac{\text{حاس}}{\text{حاس} + \text{حاس} + \text{حاس}} \right] = \text{حاس} \quad \left[\frac{\text{حاس}}{\text{حاس} + \text{حاس} + \text{حاس}} \right]$$

نفرض $\text{حاس} = \text{حاس} \leftarrow \frac{\text{حاس}}{\text{حاس}} = \text{حاس} - \text{حاس} \leftarrow \text{حاس} - \text{حاس} = \text{حاس}$

$$\text{حاس} \cdot \left[\frac{\text{حاس} - \text{حاس}}{(1 + \text{حاس})(\text{حاس} + \text{حاس})} \right] = \frac{\text{حاس} - \text{حاس}}{\text{حاس}} \cdot \frac{\text{حاس} \times \text{حاس}}{\text{حاس} + \text{حاس} + \text{حاس}}$$

$$\frac{\text{حاس}}{1 + \text{حاس}} + \frac{\text{حاس}}{\text{حاس} + \text{حاس}} = \frac{\text{حاس} - \text{حاس}}{(1 + \text{حاس})(\text{حاس} + \text{حاس})}$$

$$\frac{(\text{حاس} + \text{حاس}) \cdot \text{حاس} + (1 + \text{حاس}) \text{حاس}}{(1 + \text{حاس})(\text{حاس} + \text{حاس})} =$$

$$(\text{حاس} + \text{حاس}) \cdot \text{حاس} + (1 + \text{حاس}) \text{حاس} = \text{حاس} - \text{حاس}$$

$$\text{حاس} = \text{حاس} \leftarrow 1 - \text{حاس}$$

$$\text{حاس} - \text{حاس} = \text{حاس} \leftarrow \text{حاس} - \text{حاس} = \text{حاس}$$

$$\text{حاس} \cdot \left[\frac{1}{1 + \text{حاس}} \right] + \text{حاس} \cdot \left[\frac{1}{\text{حاس} + \text{حاس}} \right] = \text{حاس} \cdot \left[\frac{\text{حاس} - \text{حاس}}{(1 + \text{حاس})(\text{حاس} + \text{حاس})} \right]$$

$$\text{حاس} + \frac{1}{1 + \text{حاس}} + \frac{1}{\text{حاس} + \text{حاس}} =$$

$$\text{حاس} + \frac{1}{1 + \text{حاس}} + \frac{1}{\text{حاس} + \text{حاس}} =$$

$$(5) \quad \left[\frac{\text{حاس}}{(1 - \text{حاس}) \text{حاس}} \right] =$$

$$\left[\frac{\text{حاس}}{(1 - \text{حاس}) \text{حاس}} \right] =$$

$$\text{حاس} = \text{حاس} \leftarrow 1 - \text{حاس} \leftarrow \frac{\text{حاس}}{\text{حاس}} = \text{حاس}$$

$$\frac{\text{حاس}}{\text{حاس}} = \text{حاس}$$

$$\text{حاس} + \frac{1}{\frac{1}{\text{حاس}}} = \text{حاس} \cdot \left[\frac{1}{\text{حاس}} \right] = \frac{\text{حاس}}{\text{حاس}} \times \text{حاس} \times \text{حاس}$$

$$\text{حاس} + \frac{(1 - \text{حاس})}{\frac{1}{\text{حاس}}} =$$

$$(٣) \left[\frac{1}{\sqrt{2}} \right] = \frac{1}{\sqrt{2}} \left[\frac{1}{\sqrt{2}} \right]$$

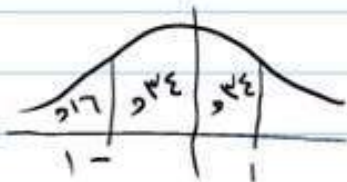
$$\frac{1}{\sqrt{2}} = \frac{1}{\sqrt{2}}$$

$$\frac{1}{\sqrt{2}} = \frac{1}{\sqrt{2}}$$

$$\left[\frac{1}{\sqrt{2}} \right] = \frac{1}{\sqrt{2}} \left[\frac{1}{\sqrt{2}} \right] - \frac{1}{\sqrt{2}} \left[\frac{1}{\sqrt{2}} \right]$$

$$= \frac{1}{\sqrt{2}} \left[\frac{1}{\sqrt{2}} \right] - \frac{1}{\sqrt{2}} \left[\frac{1}{\sqrt{2}} \right]$$

$$= \frac{1}{\sqrt{2}} \left[\frac{1}{\sqrt{2}} \right] - \frac{1}{\sqrt{2}} \left[\frac{1}{\sqrt{2}} \right]$$



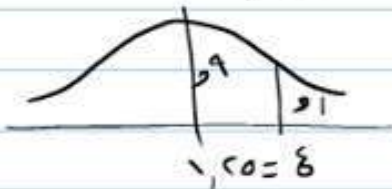
ب- (١) ل (٦.٥) (٨.٥)

$$1 - \frac{1}{\sqrt{2}} = \frac{1}{\sqrt{2}} = \frac{1}{\sqrt{2}} = 0.707$$

$$1 - \frac{1}{\sqrt{2}} = \frac{1}{\sqrt{2}} = \frac{1}{\sqrt{2}} = 0.707$$

$$0.707 = (1 - 0.24) - (1 - 0.17) = 0.707$$

$$\text{عدد الطلبة} = 1000 \times \frac{0.707}{1} = 707$$



$$\frac{1}{\sqrt{2}} = 0.707$$

$$\frac{1}{\sqrt{2}} = 0.707$$

$$0.707 = 0.707 + 0.707 = 1.414$$

العلم السأفي :-

السؤال الخامس :

(٩) } حاس . وس

الحل : نفرض $ص = حاس$

$$\frac{1}{ص} = \frac{ص}{حاس} \leftarrow حاس = ص \cdot حاس$$

$$حاس \times حاس = حاس \cdot \left(\frac{1}{ص} - \frac{1}{حاس} \right) \cdot حاس$$

$$= حاس \cdot (حاس - 1) \cdot حاس$$

$$حاس = 1 \quad \text{و} \quad حاس - 1 = حاس$$

$$1 = حاس - 1$$

$$حاس = 1$$

$$حاس \cdot (حاس - 1) \cdot حاس = حاس \cdot \left(\frac{1}{ص} - \frac{1}{حاس} \right) \cdot حاس$$

$$= حاس - \frac{1}{ص} \cdot حاس = حاس - \frac{حاس}{ص}$$

$$= حاس - \frac{1}{ص} \cdot حاس = حاس - \frac{حاس}{ص}$$

$$= حاس - \frac{1}{ص} \cdot حاس = حاس - \frac{حاس}{ص}$$

$$(١٠) \quad حاس = (حاس) + (حاس) = 1 \leftarrow حاس = (حاس) + (حاس) = 1$$

$$1 = حاس \leftarrow حاس = 1$$

$$حاس = (حاس) + (حاس) = 1$$

$$\frac{1}{حاس} = \frac{1}{حاس} + \frac{1}{حاس}$$

ن : عدد مرات ظهور الصور

$$\{1, 2, 3\} = حاس$$

$$(١) \quad حاس = (حاس) + (حاس) = 1 \leftarrow حاس = (حاس) + (حاس) = 1$$

$$\frac{1}{حاس} = \frac{1}{حاس} + \frac{1}{حاس} = \frac{1}{حاس} + \frac{1}{حاس} = \frac{1}{حاس}$$

$$حاس = (حاس) = حاس \cdot حاس = \frac{1}{حاس} \cdot حاس = 1$$

السؤال السادس :

$$(٩) \text{ ميل المماس } = \frac{y_2}{x_2} = \frac{y_1}{x_1} = \frac{1}{2} \Rightarrow \frac{y_2}{x_2} = \frac{1}{2} \Rightarrow y_2 = \frac{1}{2}x_2$$

$$\frac{1}{2} = \frac{y_2}{x_2} \Rightarrow y_2 = \frac{1}{2}x_2$$

$$2 = \frac{1}{2}x_2 \Rightarrow x_2 = 4$$

$$y_2 = \frac{1}{2}x_2 = \frac{1}{2} \times 4 = 2$$

$$x_2 + y_2 = 4 \Rightarrow x_2 + 2 = 4 \Rightarrow x_2 = 2$$

$$\frac{2}{4} = \frac{1}{2} \Rightarrow \frac{1}{2} = \frac{1}{2} \Rightarrow 1 = 1$$

$$1 + 2 = 3 \Rightarrow \frac{3}{2} = \frac{3}{2}$$

(٧) معادلة القطع $\frac{x^2}{4} - \frac{y^2}{9} = 1$ النقطه $(4, 3)$ تحقق معادلة القطع

$$\frac{4^2}{4} - \frac{3^2}{9} = 1 \Rightarrow 4 - 1 = 1 \Rightarrow 3 = 1$$

$$\frac{4^2}{4} - \frac{3^2}{9} = 1 \Rightarrow 4 - 1 = 1 \Rightarrow 3 = 1$$

$$4 - 1 = 1 \Rightarrow 3 = 1$$

$$\frac{4^2}{4} - \frac{3^2}{9} = 1 \Rightarrow 4 - 1 = 1 \Rightarrow 3 = 1$$

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