

الإرشادات

الصف الثالث الثانوى

التفاضل والتكامل

إرشادات الاختبارات

اختبار رقم (١)

$$\left(\frac{1}{x} + \frac{1}{y} - \frac{1}{z} \right) = \frac{1}{x} + \frac{1}{y} - \frac{1}{z} \quad (1)$$

$$\frac{1}{x} + \frac{1}{y} - \frac{1}{z} = \frac{1}{x} + \frac{1}{y} - \frac{1}{z} \quad (2)$$

$$\frac{1}{x} + \frac{1}{y} - \frac{1}{z} = \frac{1}{x} + \frac{1}{y} - \frac{1}{z} \quad (3)$$

$$\frac{1}{x} + \frac{1}{y} - \frac{1}{z} = \frac{1}{x} + \frac{1}{y} - \frac{1}{z} \quad (4)$$

$$\frac{1}{x} + \frac{1}{y} - \frac{1}{z} = \frac{1}{x} + \frac{1}{y} - \frac{1}{z} \quad (5)$$

$$\frac{1}{x} + \frac{1}{y} - \frac{1}{z} = \frac{1}{x} + \frac{1}{y} - \frac{1}{z} \quad (6)$$

$$\frac{1}{x} + \frac{1}{y} - \frac{1}{z} = \frac{1}{x} + \frac{1}{y} - \frac{1}{z} \quad (7)$$

$$\frac{1}{x} + \frac{1}{y} - \frac{1}{z} = \frac{1}{x} + \frac{1}{y} - \frac{1}{z} \quad (8)$$

$$\frac{1}{x} + \frac{1}{y} - \frac{1}{z} = \frac{1}{x} + \frac{1}{y} - \frac{1}{z} \quad (9)$$

$$\frac{1}{x} + \frac{1}{y} - \frac{1}{z} = \frac{1}{x} + \frac{1}{y} - \frac{1}{z} \quad (10)$$

$$\frac{1}{x} + \frac{1}{y} - \frac{1}{z} = \frac{1}{x} + \frac{1}{y} - \frac{1}{z} \quad (1)$$

$$\frac{1}{x} + \frac{1}{y} - \frac{1}{z} = \frac{1}{x} + \frac{1}{y} - \frac{1}{z} \quad (2)$$

$$\frac{1}{x} + \frac{1}{y} - \frac{1}{z} = \frac{1}{x} + \frac{1}{y} - \frac{1}{z} \quad (3)$$

$$\frac{1}{x} + \frac{1}{y} - \frac{1}{z} = \frac{1}{x} + \frac{1}{y} - \frac{1}{z} \quad (4)$$

$$\frac{1}{x} + \frac{1}{y} - \frac{1}{z} = \frac{1}{x} + \frac{1}{y} - \frac{1}{z} \quad (5)$$

$$\frac{1}{x} + \frac{1}{y} - \frac{1}{z} = \frac{1}{x} + \frac{1}{y} - \frac{1}{z} \quad (6)$$

$$\frac{1}{x} + \frac{1}{y} - \frac{1}{z} = \frac{1}{x} + \frac{1}{y} - \frac{1}{z} \quad (7)$$

$$\frac{1}{x} + \frac{1}{y} - \frac{1}{z} = \frac{1}{x} + \frac{1}{y} - \frac{1}{z} \quad (8)$$

$$\frac{1}{x} + \frac{1}{y} - \frac{1}{z} = \frac{1}{x} + \frac{1}{y} - \frac{1}{z} \quad (9)$$

$$\frac{1}{x} + \frac{1}{y} - \frac{1}{z} = \frac{1}{x} + \frac{1}{y} - \frac{1}{z} \quad (10)$$

3

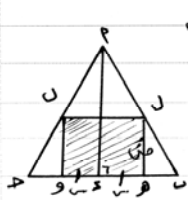
(f)

3

$$1 = \frac{v}{c} + \frac{v}{c} \left(\frac{v}{c} \right)^2$$

دعنا نستخدم الطريقة على من حيث $v \neq 0$.

$$\frac{1}{v} = \frac{v}{c} + \frac{v}{c} \left(\frac{v}{c} \right)^2$$



نفسه بعد المتطابق

$PS \perp QR$

وانه مساحة PQR

$$PS = \frac{1}{2} QR$$

لذلك $PS \parallel QR$

$\triangle PSQ \sim \triangle PQR$

$$\frac{PS}{QR} = \frac{PQ}{PR} \Rightarrow \frac{PS}{QR} = \frac{1}{2}$$

$$PS = \frac{1}{2} QR$$

$$PS = \frac{1}{2} QR \Rightarrow PS = \frac{1}{2} \cdot 2 = 1$$

$$PS = 1 \Rightarrow PS = 1$$

$$PS = 1 \Rightarrow PS = 1$$

$$PS = 1 \Rightarrow PS = 1$$

نفسه من سطح المتطابق أكبر ما يمكن

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

بعد المتطابق: $\frac{1}{2} = 1$

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

$$d(+) = (v+7) \cdot v$$

$$1 = v + 7 =$$

$$1 = \frac{v+7}{v} \Rightarrow 1 = \frac{v+7}{v}$$

$$1 = \frac{v+7}{v} \Rightarrow 1 = \frac{v+7}{v}$$

$$1 = \frac{v+7}{v} \Rightarrow 1 = \frac{v+7}{v}$$

$$1 = \frac{v}{c}$$

$$1 + \frac{v}{c} - \frac{v}{c} = 1$$

عندما $v = 0$

$$1 = \frac{v}{c} - \frac{v}{c}$$

$$1 = \frac{v}{c} - \frac{v}{c}$$

نوجد قيمة v من معادلة مقدارها

$$1 = 1 + \frac{v}{c} - \frac{v}{c}$$

$$1 = \frac{v}{c} - \frac{v}{c}$$

نوجد قيمة v من معادلة مقدارها

$$1 = \frac{v}{c} - \frac{v}{c}$$

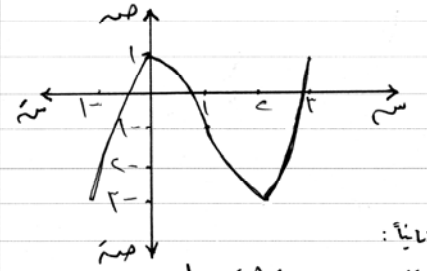
$$1 > \frac{v}{c} \Rightarrow 1 > \frac{v}{c}$$

$$1 < \frac{v}{c} \Rightarrow 1 < \frac{v}{c}$$

نوجد نقطة انقلاب عند $v = 1$

$$1 = 1 + \frac{v}{c} - \frac{v}{c}$$

م	1	0	1	2	3
م	1	1	1	1	1
نوع الفترة	ساعة	عظمى	انقلاب	صغرى	ساعة



نلاحظ:

$$1 = \frac{v}{c}$$

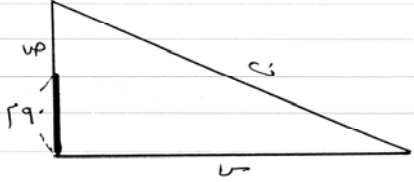
نوجد قيمة v من معادلة مقدارها

$$1 = \frac{v}{c} - \frac{v}{c}$$

$$1 = \frac{v}{c} - \frac{v}{c}$$

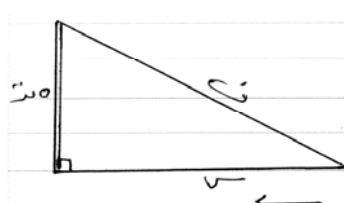
$$1 = \frac{v}{c} - \frac{v}{c}$$

$$1 = \frac{v}{c} - \frac{v}{c}$$

$\begin{aligned} 9 &= 0.3 + 0.9 + 0.7 \therefore \\ 10 &= 0 + 0.3 \therefore \\ 10 &= 0 + 0.7 - \\ 10 &= 10 - 0.7 = 0 \therefore \end{aligned}$	
$\begin{aligned} (1) \quad \frac{1}{2} &= \frac{1}{2} \times \frac{1}{2} = \frac{1}{4} \\ 1 &= \frac{1}{2} \times \frac{1}{2} = \frac{1}{4} \\ 1 &= \frac{1}{2} \times \frac{1}{2} = \frac{1}{4} \\ 1 &= \frac{1}{2} \times \frac{1}{2} = \frac{1}{4} \\ 1 &= \frac{1}{2} \times \frac{1}{2} = \frac{1}{4} \\ 1 &= \frac{1}{2} \times \frac{1}{2} = \frac{1}{4} \end{aligned}$	بعد ٥ ثواني يكمل $\sim$ البعد الرأسى $\sim 10 + 90 =$ البعد الأفقى $\sim 100 =$ $\therefore 100 = 10 + 90 + 100 = 200$ عند $\sim$ $\therefore 100 = 10 + 90 + 100 = 200$ $\therefore 100 = 10 + 90 + 100 = 200$ $\therefore 100 = 10 + 90 + 100 = 200$
$\begin{aligned} 7 &= \frac{7}{1} = \frac{7}{1} \\ 7 &= \frac{7}{1} = \frac{7}{1} \\ 7 &= \frac{7}{1} = \frac{7}{1} \\ 7 &= \frac{7}{1} = \frac{7}{1} \\ 7 &= \frac{7}{1} = \frac{7}{1} \\ 7 &= \frac{7}{1} = \frac{7}{1} \end{aligned}$	اختبار رقم (٣) $\begin{aligned} 1 &= \frac{1}{2} \times \frac{1}{2} = \frac{1}{4} \\ 1 &= \frac{1}{2} \times \frac{1}{2} = \frac{1}{4} \\ 1 &= \frac{1}{2} \times \frac{1}{2} = \frac{1}{4} \\ 1 &= \frac{1}{2} \times \frac{1}{2} = \frac{1}{4} \\ 1 &= \frac{1}{2} \times \frac{1}{2} = \frac{1}{4} \\ 1 &= \frac{1}{2} \times \frac{1}{2} = \frac{1}{4} \end{aligned}$
$\begin{aligned} 1 &= \frac{1}{2} \times \frac{1}{2} = \frac{1}{4} \\ 1 &= \frac{1}{2} \times \frac{1}{2} = \frac{1}{4} \\ 1 &= \frac{1}{2} \times \frac{1}{2} = \frac{1}{4} \\ 1 &= \frac{1}{2} \times \frac{1}{2} = \frac{1}{4} \\ 1 &= \frac{1}{2} \times \frac{1}{2} = \frac{1}{4} \\ 1 &= \frac{1}{2} \times \frac{1}{2} = \frac{1}{4} \end{aligned}$	$\begin{aligned} 1 &= \frac{1}{2} \times \frac{1}{2} = \frac{1}{4} \\ 1 &= \frac{1}{2} \times \frac{1}{2} = \frac{1}{4} \\ 1 &= \frac{1}{2} \times \frac{1}{2} = \frac{1}{4} \\ 1 &= \frac{1}{2} \times \frac{1}{2} = \frac{1}{4} \\ 1 &= \frac{1}{2} \times \frac{1}{2} = \frac{1}{4} \\ 1 &= \frac{1}{2} \times \frac{1}{2} = \frac{1}{4} \end{aligned}$

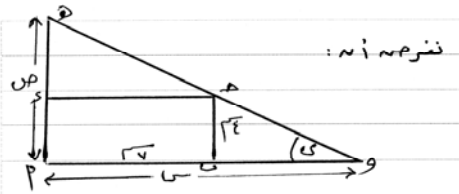
V

人

$1 - p = 0 \therefore 1 - p = 0 + p \therefore$ $1 \geq 0 \quad 0 + p \geq 1 \quad 1 - p \geq 0$ $1 - p \geq 0 \quad 1 - p \geq 0$ $(1) \leq (1) \therefore$ $1 - p = 0 + 1 \times p \therefore$ $1 - p = 1 - p \therefore$ $0 = p \therefore \quad 0 = p \therefore$  نضعه أنه بعد الفارق كما تأكدنا الخطوة $1 - p = 0$ وانه بعد الفارق كما الرجل $0 = p \therefore$ منه شيئاً خورث : $0 + p = 0$ وعندها $1 = 0$ $179 = 0 + 179 = 0$ $12 = 0$ نرا ربأخذ الدالة متقاً به بالنسبة للزمن : $\frac{0}{12} \cdot 0 = \frac{0}{12} \cdot 0$ $\frac{0}{12} \times 12 = 0 - 12$ $\therefore \frac{0}{12} = \frac{12}{12}$	$2 - 0 = 0 \therefore$ $(2 + 0) \frac{1}{2} = 0 \therefore$ وبالعوضيه عنه يتم في العلاقة التامية : $1 - (2 + 0) \frac{1}{2} \times 0 = 0$ $0 \times (2 + 0) \times \frac{1}{2} = \frac{0}{2}$ $0 - 2 + 0 = \frac{0}{2}$ $2 + 0 - 2 = \frac{0}{2}$ الزعيمه من المطلوب $(0 - 2 + 0) 2 - (2 + 0 - 2) 0 =$ $0 - 4 + 0 =$ $0 - 4 + 0 - 2 - 0 - 2 + 0 =$ $0 - 4 + 0 - 2 - 0 - 2 + 0 =$ صفرأ . ميل العورس $= 0 - 0 = 0$ ميل الماس $= \frac{1}{0} = 0$ $\frac{0}{0} = \frac{0}{0}$ $\{ 0 \cdot 0 = 0 \}$ $0 = 0 - 0 + 0$ المعنى يرب بالنقطة (1, 0) $0 + 0 = 1$
باستخدام التعريف نجد انه : $7 = (7) \leq 0 \quad 0 = (0) \leq 7$ $(7) \leq (0) \neq (0) \leq (7)$ نجد قابلية للاستقانه كنزس = $0 < 0 \quad 0 < 0$ $1 > 0 \quad 0 > 0$ $0 = 0 \quad 0 = 0$ حيث $0 \in [0, 1]$	$0 = 0 \therefore 0 = 1 + 1$ معادلة المعنى : $0 = 0 - 0 + 0$ الدالة قابلية للاستقانه كنزس = 1 فهو متصلة . رزبا $(0 + 0 + 0) =$ $(0 - 0) = 1$ $0 + 1 = 1$

‘ ’

١ = $\frac{1+\delta}{\delta} \times \frac{\delta}{1+\delta} = \frac{\delta}{\delta} = 1$ $\therefore \delta = 1$ $\therefore \frac{\delta}{\delta} = 1 \times \frac{\delta}{\delta} + \frac{\delta}{\delta} \times \frac{\delta}{\delta}$ $\therefore \frac{\delta}{\delta} = \frac{\delta}{\delta} = \frac{\delta}{\delta}$ (١) دعنا نأخذ مشتقا مرة أخرى بالنسبة إلى δ : $\therefore \frac{\delta}{\delta} = \frac{\delta}{\delta} + \frac{\delta}{\delta} + \frac{\delta}{\delta} \times \frac{\delta}{\delta}$ $\therefore \frac{\delta}{\delta} = \frac{\delta}{\delta} \times \frac{\delta}{\delta} + \frac{\delta}{\delta} \times \frac{\delta}{\delta}$ دعنا نأخذ المشتقة مرة أخرى (١) $\frac{\delta}{\delta} = \frac{\delta}{\delta} \times \frac{\delta}{\delta}$ $\therefore \frac{\delta}{\delta} = \frac{\delta}{\delta}$	٢ $\delta(1-\delta) = 0$ عندما $\delta = 1$ $\delta > 0 \Rightarrow \delta(1-\delta) < 0$ $\delta < 0 \Rightarrow \delta(1-\delta) > 0$ $\therefore$ نقول إننا نقطرة $\delta = 1$ $\therefore$ نقطة تقاطع $\delta = 1$ ٣ $\delta(1-\delta) = 0$ عندما $\delta = 1$ $\delta > 0 \Rightarrow \delta(1-\delta) < 0$ $\delta < 0 \Rightarrow \delta(1-\delta) > 0$ $\therefore$ نقول إننا نقطرة $\delta = 1$ $\therefore$ نقطة تقاطع $\delta = 1$
٤ $\delta(1-\delta) = 0$ عندما $\delta = 1$ $\delta > 0 \Rightarrow \delta(1-\delta) < 0$ $\delta < 0 \Rightarrow \delta(1-\delta) > 0$ $\therefore$ نقول إننا نقطرة $\delta = 1$ $\therefore$ نقطة تقاطع $\delta = 1$	٤ $\delta(1-\delta) = 0$ عندما $\delta = 1$ $\delta > 0 \Rightarrow \delta(1-\delta) < 0$ $\delta < 0 \Rightarrow \delta(1-\delta) > 0$ $\therefore$ نقول إننا نقطرة $\delta = 1$ $\therefore$ نقطة تقاطع $\delta = 1$
٥ $\delta(1-\delta) = 0$ عندما $\delta = 1$ $\delta > 0 \Rightarrow \delta(1-\delta) < 0$ $\delta < 0 \Rightarrow \delta(1-\delta) > 0$ $\therefore$ نقول إننا نقطرة $\delta = 1$ $\therefore$ نقطة تقاطع $\delta = 1$	٥ $\delta(1-\delta) = 0$ عندما $\delta = 1$ $\delta > 0 \Rightarrow \delta(1-\delta) < 0$ $\delta < 0 \Rightarrow \delta(1-\delta) > 0$ $\therefore$ نقول إننا نقطرة $\delta = 1$ $\therefore$ نقطة تقاطع $\delta = 1$



نفرصه i : n

$$P = S = 2, \quad S = 1 \\ \therefore (2.5) = \frac{1}{2} S = \frac{1}{2} \times 2 = 1 \\ \therefore \frac{S}{2} = \frac{P}{S} = \frac{1}{2}$$

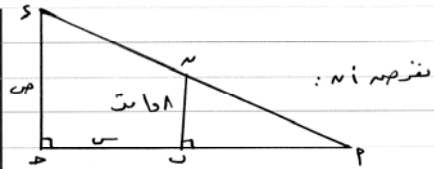
$$\therefore \frac{S}{2} = \frac{P}{S} = \frac{1}{2} \quad \therefore \frac{S}{2} = \frac{P}{S} \\ \therefore \frac{S}{2} = \frac{P}{S} = \frac{1}{2} \quad \therefore \frac{S}{2} = \frac{P}{S} = \frac{1}{2}$$

$$\therefore \frac{1 \times 8 - 5 \times 4(4-5)}{9(4-5)} = \frac{1 \times 8 - 5 \times 4(4-5)}{9(4-5)} \\ \therefore \frac{1 \times 8 - 5 \times 4(4-5)}{9(4-5)} = \frac{1 \times 8 - 5 \times 4(4-5)}{9(4-5)}$$

$$\therefore \frac{1 \times 8 - 5 \times 4(4-5)}{9(4-5)} = \frac{1 \times 8 - 5 \times 4(4-5)}{9(4-5)} \\ \therefore \frac{1 \times 8 - 5 \times 4(4-5)}{9(4-5)} = \frac{1 \times 8 - 5 \times 4(4-5)}{9(4-5)}$$

اختبار رقم (٧)

$$\therefore \frac{(3-5-4) \times 5}{1 \times (3-5-4) \times 5} = \frac{(3-5-4) \times 5}{1 \times (3-5-4) \times 5} \\ \therefore \frac{(3-5-4) \times 5}{1 \times (3-5-4) \times 5} = \frac{(3-5-4) \times 5}{1 \times (3-5-4) \times 5} \\ \therefore \frac{(3-5-4) \times 5}{1 \times (3-5-4) \times 5} = \frac{(3-5-4) \times 5}{1 \times (3-5-4) \times 5}$$



نفرصه i : n

$$\therefore \frac{S}{2} = \frac{P}{S} = \frac{1}{2} \quad \therefore \frac{S}{2} = \frac{P}{S} = \frac{1}{2} \\ \therefore \frac{S}{2} = \frac{P}{S} = \frac{1}{2} \quad \therefore \frac{S}{2} = \frac{P}{S} = \frac{1}{2}$$

$$\therefore \frac{S}{2} = \frac{P}{S} = \frac{1}{2} \quad \therefore \frac{S}{2} = \frac{P}{S} = \frac{1}{2} \\ \therefore \frac{S}{2} = \frac{P}{S} = \frac{1}{2} \quad \therefore \frac{S}{2} = \frac{P}{S} = \frac{1}{2}$$

$$\therefore \frac{1 \times 8 - 5 \times 4(4-5)}{9(4-5)} = \frac{1 \times 8 - 5 \times 4(4-5)}{9(4-5)} \\ \therefore \frac{1 \times 8 - 5 \times 4(4-5)}{9(4-5)} = \frac{1 \times 8 - 5 \times 4(4-5)}{9(4-5)}$$

$$\therefore \frac{1 \times 8 - 5 \times 4(4-5)}{9(4-5)} = \frac{1 \times 8 - 5 \times 4(4-5)}{9(4-5)} \\ \therefore \frac{1 \times 8 - 5 \times 4(4-5)}{9(4-5)} = \frac{1 \times 8 - 5 \times 4(4-5)}{9(4-5)}$$

$$\therefore \frac{1 \times 8 - 5 \times 4(4-5)}{9(4-5)} = \frac{1 \times 8 - 5 \times 4(4-5)}{9(4-5)} \\ \therefore \frac{1 \times 8 - 5 \times 4(4-5)}{9(4-5)} = \frac{1 \times 8 - 5 \times 4(4-5)}{9(4-5)} \\ \therefore \frac{1 \times 8 - 5 \times 4(4-5)}{9(4-5)} = \frac{1 \times 8 - 5 \times 4(4-5)}{9(4-5)}$$

10

نضع المائدة مبرور أكبر كمية منه الصنوبر عندما يكون له طول القاعدة = 1 متر . وهو (11) : عرض المستطيل = $\frac{1}{2}(17-2)$	نفسه أنه لمدل ضلع المثلث = 1 ومساحة المثلث م . ∴ $\frac{1}{2} \times 1 \times 1 = \frac{1}{2}$ م² المطلوب : $\frac{1}{2} \times 1 \times 1 = \frac{1}{2}$ م² عندما 1 = 17-2 م $\frac{1}{2} \times 1 \times 1 = \frac{1}{2}$ م² ∴ $\frac{1}{2} \times 1 \times 1 = \frac{1}{2}$ م² عندما 1 = 17-2 م $\frac{1}{2} \times 1 \times 1 = \frac{1}{2}$ م² عندما 1 = 17-2 م
اختبار رقم (٨) 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100	0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

17

$5 + 1 + 1 + 1 + 1 + 1 = 9$
 $5 + 1 + 1 + 1 + 1 + 1 = 9$
 $5 + 1 + 1 + 1 + 1 + 1 = 9$
 نور محمد نوري! شارب
 حرم = عرسا = 5

19

21