

#### دولة الكويت وزارة التربية

امتحان نهاية الفترة الدراسية الأولى للصف الثاني عشر علمي 2018 / 2019م المجال الدراسي: الرياضيات الزمن: ساعتان و45 دقيقة الأسئلة في 13 صفحة

القسم الأول: أسئلة المقال أجب عن الأسئلة التالية موضحاً خطوات الحل في كل منها:

( 6 درجات )	$\lim_{x \to 2} \frac{(x+1)^2 - 9}{x^2 - 2x}$	السنؤال الأول : ( a ) أوجد
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( 8 درجات )		ك :	م السوال الأو
f(x) = 2x -	+ 1, $g(x)$		b) إذَا كانت :
		$(g\circ f)'($	(1) أوجد (x
A(0,1) عند النقطة (	$g\circ f)(x)$ لدالة	ادلة العماس ا	(2) أوجد مع
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	हिमानुस्तरीको संस्कृत करणासूत्रीक सामानुस्तरीको सम्बद्धी है कि स्वीतर्स्तर सम्बद्धी है कि स्वीतर्द्ध	ejejoral pie uspignose ustrudynu gluge s	in him hay o stratu. Sistempis singula
માં ભાગમાં અંતિમાં ભાગમાં અને અંતર ભાગમાં અને અંતર સામાના અને સ્ટાર કાર્યક્રિક સામાના સામાના સામાના માટે સામાન આ મામલા માટે આ પ્રેમિક્સ સામાના સામાના સામાના માટે અને સામાના સામાના સામાના સામાના સામાના સામાના માટે સામાના મ	د به مانتها لله و المان الله الله الله الله الله الله الله ال		September and the complete and and the complete and the c
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(7 درجات	$y = \frac{\sin x}{\sin x + \cos x}$	ع السوال الثاني: b ) إذا كانت:
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(4) (4) (4)	يون الثالث: (a) اوجد $\frac{x-5}{x\to\infty}$ $\sqrt{x^2-2x-3}$
	$x \to \infty \sqrt{x^2 - 2x - 3}$
	ఆర్థి లి క్రియాల విర్యాంతాలు అందా అంది అంది మాటుకుండా అదే పాటుండిన క్రియాలు అత్యాత్యాన్ని ప్రాయంతో అత్యాతాలు మాటుకుండా మా
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( 6 درجات	م السوال الثالث:
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	్ కారా కారాగా కారుడు తొరిపుడుదుల దెద్దురు ప్రావిణ్య ప్రవిధాని ముదింది. మందింది మధిన ప్రావారం చేస్తుంది. ఎక్కువడు చేసారను అనుదిన
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- అనికేస్తుండుకుని తెక్కిన్ని అయిని రాజుల ముదువుకుండినాల ఉన్ని ముదువుకు వినిధాలను ఉన్నాయి. వినిధాలు అనికి సంకార	en andre kalen ger delle ette i seden et et elle delle kalen delle spåne aføre et et en gregne, en gren egg,
eren in indignej e magago poses som som komposes en en indiskop som så kyres som blefat som syngtes en byrejsko	त्रकार बाह्य का कार्यकार कार्य -
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#### امتحان نهائية الفترة الدراسيية الأولى للصف الثاني عشر علمي والرياضيات. 2018 / 2019 م

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, <b>f</b>			نابع السؤال الرابع:
	ن فإذا كان حجم عينة $\sigma=12.5$	$. \ \overline{x} = 76.3$	الجريت دراسة لعينة من الإ $n=40$ الإثاث $n=40$ والاتحراف والمتوسط الحسابي للعينة استخدم مستوى ثقة $5\%$
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			्राच्या विकास क्षेत्र विकास क्षेत्र क्ष
	pritte per te per te mente de milite antique action de la distribución de la constitución de la constitución d	- Arania waka ji kilipi ja ja ja wasa aji saka wa wakasa sa ka di atawasa ku wa wasa ili kili waka k	n den er er kommunen er en er er kommune skriver er er kommune skriver er e

القسم الثاني ( البنود الموضوعية ) . أولا: في البنود (4-1) ظلل في ورقة الإجابة: (a) إذا كانت العبارة صحيحة (b) إذا كانت العبارة خاطنة

$$\lim_{x\to 0}\frac{4x^2+5\sin^2x}{3x^2}=3$$
 (1)

$$a=-3$$
 ,  $b=-2$  فإن  $\lim_{x\to -\infty} \frac{ax^3+bx^2+4}{3x^2-2x+1}=-1$  فإن (2)

$$\forall x \in \mathbb{R}$$
 قابلة للإشتقاق  $f(x) = x |x| : f$  الدالة (3)

$$[-1,2]$$
 تحقق شروط نظرية القيمة المتوسطة في الفترة  $f(x) = \sqrt[3]{x-1}$  :  $f(x)$ 

ثانياً: في البنود (14-5) لكل بند أربع اختيارات واحد فقط منها صحيح ظلل في ورقة الإجابة الرمز الدال على الاختيار الصحيح

ون الدالة 
$$f'(1)$$
 فإن  $f(x) = \frac{3}{\sqrt{2x-1}}$  نساوي (5)

$$\begin{array}{cc} (a) & -\frac{3}{2} \end{array}$$

$$\begin{array}{cc} (b) & \frac{3}{2} \end{array}$$

$$(c) -3$$

$$(d)$$
 3

$$f(x) = \frac{2}{x} : f$$
 هي: الدالة  $f(x) = \frac{2}{x} : f$  هي:

$$(a) -2$$

$$\begin{array}{c} (b) & -1 \\ \hline 2 \end{array}$$

$$(c) \frac{1}{2}$$

عند 
$$[0,3]$$
 الدالة  $f(x)=-3x+1:f$  عند عظمى مطلقة في  $f(x)=-3x+1:f$ 

(a) x = 3

(b) x = 1 (c) x = 0 (d) x = -8

: متصلة على 
$$f(x) = \frac{x+1}{25-x^2}$$
: الدالة  $f(x)$ 

(a)  $\mathbb{R}$ 

(b) [-5,5]

(c)  $\mathbb{R} \setminus \{-5,5\}$ 

(d)  $(-\infty, 25)$ 

$$\lim_{x \to -2} (x^2 + f(x)) = 7$$
 وكانت الدالة  $f$  منصلة عند  $f$  منصلة  $f$  فانت  $f$  فانت الدالة  $f$  منصلة عند  $f$ 

f(-2) نساوي

(a) 3 (b) 5 (c) 9

نساوي 
$$\frac{dy}{dx}$$
 اذا كان  $x^2 + y^2 = 25$  نساوي (10)

(b)  $\frac{-x}{y}$  (c) 2x + 2y (d) -x

$$y=3x^2-9x-4$$
 عدد النقاط الحرجة للدالة:  $y=3x^2-9x-4$  على الفترة (11) عدد النقاط الحرجة للدالة:

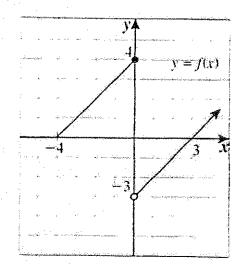
(a) 3

(b) 2

(c) 1

(d) 0

(12) إذا كان الشكل المقابل هو بيان دالة f فإن العبارة الصحيحة في ما يلي هي :



$$(a) \lim_{x\to 0^+} f(x) = 4$$

$$(b) \quad \lim_{x \to 0} f(x) = 4$$

(c) 
$$\lim_{x\to 0^-} f(x) = -3$$

(b) 
$$\lim_{x\to 0^{-}} f(x) = 4$$
  
(c)  $\lim_{x\to 0^{-}} f(x) = -3$   
(d)  $\lim_{x\to 0} f(x) = -3$ 

(13) أي منحنيات الدوال التالية يكون مقعراً للأسفل في (-1,1) :

$$(a) \quad f(x) = x^3$$

$$(b) \quad f(x) = -x^3$$

$$(c) \quad f(x) = x^2$$

$$(d) \quad f(x) = -x^2$$

( 14 ) إذا كان القرار قبول فرض العدم ، وفترة الثقة (1.96,1.96-1) فإن قيمة الإختبار Z يمكن أن تكون:

(a) 
$$-2.5$$

$$(b) -2$$

انتهت الأسئلة

#### دولة الكويت وزارة التربية

امتحان نهاية الفترة الدراسية الأولى للصف الثاني عشر علمي 2017 / 2018 م المجال الدراسي: الرياضيات الزمن: ساعتان و 45 دقيقة الأسئلة في 12 صفحة

### القسم الأول: أسئلة المقال أجب عن الأسئلة التالية موضحاً خطوات الحل في كل منها:

	3 0 3	
14 ( 7 درجات )	$\lim_{x\to 0} \frac{x^2}{1-\cos x}$	السوال الأول : ( a ) أوجد
	$x \rightarrow 0$ $1 - cosx$	الحل:

( 7 درجات )				تابع السؤال الأول:
	أوجد:	$2\sqrt{y}+y=x$	عادلته ع	( b ) للمنحنى الذي م
				y' (1
	(3	عند النقطة (1، 3	لهذا المنحنى	2) ميل المماس
				الحل:
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السؤال الثانى: (a) أوجد $\lim_{x\to\infty} \frac{\sqrt{2x^2 - x}}{x + 1}$		14 ( 7 درجات )
الحل:		
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(2)		

### امتحان نهاية الفترة الدراسية الأولى للصف الثاني عشر علمي 2017 / 2018 م المتحان نهاية الفترة الدراسي / الرياضيات

(7 درجات)	تابع السؤال الثاني:
	(b) أوجد عددين موجبين مجموعهما 20 وناتج ضربهما أكبر ما يمكن
	الحل:
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( و درجات )	$f(x)=1-x^3$	السؤال الثالث: (a) ادرس تغیر الدالة f: ثم ارسم بیانها الحل:
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( 5 درجات )	تابع السؤال الثالث:
•	(b) أخذت عينة عشوائية من مجتمع طبيعي د
سها السابي ( ۱ ) يساوي ۱ ۰	المعياري للعينة (s) يساوي 10، ومتوس
	استخدم مستوى ثقة %95 لإيجاد:
	1) هامش الخطأ
الاحصائي لل	2) فترة الثقة للمتوسط الحسابي للمجتمع
	الحل:
	· <del></del>
·	
······	

•		السؤال الرابع:
14	$f(x) = \sqrt{4 - x^2}$	: f لتكن (a)
( 7 درجات )	[-2,2] على $f$	ادرس اتد
		الحل:
	***************************************	
	·	
	***************************************	
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( 7 درجات )	$f(x) = \begin{cases} x - \frac{4}{x} \\ x^2 - 4 \end{cases}$	$: x \ge 2$			تابع السؤا ( b ) لتكن
	$(x^2-4)$		وعيّن مجالها		
		****************	***************************************		الحل:
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القسم الثاني ( البنود الموضوعية ) . أولا : في البنود (1-2) ظلل في ورقة الإجابة: (a) إذا كانت العبارة صحيحة (b)

$$\lim_{x \to 0^{-}} \frac{\sqrt{x^2} - x}{x} = -2 \tag{1}$$

من خلال دراسة لعينة عشوائية  $\mu=25000$  متوسط عمر الإطارات في أحد المصانع  $\overline{x}=27000$  من خلال دراسة لعينة عشوائية تبيّن أن المتوسط الحسابي هو  $\overline{x}=27000$  معياري  $\overline{x}=2$  إذا كان المقياس الإحصائي Z=2 فإن حجم العينة z=2

ثانياً: في البنود ( 10- 3 ) لكل بند أربع اختيارات واحد فقط منها صحيح ظلل في ورقة الإجابة الرمز الدال على الاختيار الصحيح

$$\lim_{x\to 2^{-}} \left(\frac{3}{x-2}\right)^{5} = \tag{3}$$
(a) 0 (b) 2 (c)  $-\infty$  (d)  $\infty$ 

- y فإن الدالة y = |x| لتكن (4)
  - لها قيمة صغرى مطلقة فقط (a)
  - (b) لها قيمة عظمى مطلقة فقط
- (c) لها قيمة عظمى مطلقة و قيمة صغرى مطلقة
- (d) ليس لها قيمة صغرى مطلقة وليس لها قيمة عظمى مطلقة

ليكن منحنى الدالة  $f(x) = x^2 - 4x + 3$  فإن النقطة التي يكون مماس المنحنى (5) عندها أفقياً هي :

(a) 
$$(3,0)$$
 (b)  $(1,0)$  (c)  $(2,-1)$  (d)  $(2,1)$ 

$$f(x) = \begin{cases} x^2 + 1 & : x \ge 2 \\ \frac{x^2 - 4}{x - 2} & : x < 2 \end{cases}$$
 :  $f(x) = \begin{cases} x^2 + 1 & : x \ge 2 \\ \frac{x^2 - 4}{x - 2} & : x < 2 \end{cases}$ 

(a)  $\lim_{x\to 2^+} f(x) = 4$  (b)  $\lim_{x\to 2^-} f(x) = 4$  (c)  $\lim_{x\to 2} f(x)$  of  $\lim_{x\to 2} f(x) = 4$  (d)  $\lim_{x\to 2^+} f(x) = 4$ 

f(x) اذا كانت g دالة متصلة عند x=1 فإن الدالة المتصلة عند x=1 فيما يلي هي (7)

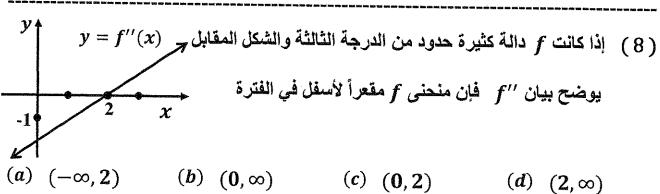
تساوي

(a) 
$$\sqrt{g(x)}$$

$$\frac{(b)}{g(x)}$$

$$\begin{array}{c} (c) \quad \underline{g(x)} \\ x-1 \end{array}$$

(d) |g(x)|



(a)  $(-\infty, 2)$ (b)  $(0,\infty)$  (c) (0,2)

للدالة  $f(x) = \sqrt[3]{x-1}$  عماس رأسي معادلته (9)

(a) 
$$x = 0$$

$$(b) \quad \mathbf{v} = \mathbf{0}$$

$$(c) \quad x = 1$$

(b) 
$$y = 0$$
 (c)  $x = 1$  (d)  $y = 1$ 

تساوي 
$$\frac{dy}{dx}$$
 نان  $y = sin^{-5}x - cos^3x$  تساوي (10)

(a)  $5\sin^{-6}x\cos x - 3\cos^2x\sin x$ 

(b)  $5\sin^{-6}x\cos x + 3\cos^2x\sin x$ 

(c)  $-5\sin^{-6}x\cos x + 3\cos^2x\sin x$  (d)  $-5\sin^{-6}x\cos x - 3\cos^2x\sin x$ 

انتهت الأسئلة

#### دولة الكويت وزارة التربية

إمتحان نهاية الفترة الدراسية الأولى للصف الثاني عشر علمي 2016 / 2017 م الأسئلة في 12 صفحه

الزمن: ساعتان و 45 تقيقة

المجال الدراسي: الرياضيات

القسم الأول: أسئلة المقال:

أجب عن الأسئلة التالية موضحا خطوات الحل في كل منها:

				السؤال الأول:
14				( a ) أوجد :
( 6 درجات)	Y:	tan 2x + 3x cos	4 <i>x</i>	
	$\lim_{x\to 0}$	5 <i>x</i>		
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				المحل :
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		تابع السؤال الأول:
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	$\lim_{x\to-\infty}\frac{\sqrt{3x-3x+1}}{3x-5}$	
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14		: حيث [1, 3]	ال الدالة على	السؤال الثاني ( a ) إدرس إتص
( 7 درجات)	$f(x) = \begin{cases} -2 \\ x^2 - 3 \end{cases}$	: :	x = 1 $1 < x < 3$ $x = 3$	
	negot kulai ta mantu a anji, a maha i i i amin di isku da amin a muna i i i amin da amin amin anji a maha i i a	PROGRAMMENT OF THE PROGRAMMENT O		الحل:
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( 7 درجات )	تابع السؤال الثاني : $y = x \sin x$ : $(b)$ إذا كان $y = x \sin x$ : فأثبت أن $y'' + y - 2 \cos x = 0$
	: کال :

14	السؤال الثالث: • (حر) - عدا 3 من المراث على المراث الثالث :
	$f(x) = x^3 - 3x + 2 : f$ بين أن الدالة ( $a$ )
(5 درجات)	تحقق شروط نظرية القيمة المتوسطة على الفترة [0,4] ثم أوجد قيمة c التي تنبيء بها النظرية
	المحل:

(9 درجات)	ثم إرسم بيانها	$f(x)=2x^2-$	$-x^4+5$	ئث: ر الدالة f:	تابع السؤال الثا $(b)$ إدرس تغير
( +3-3)					الحل:
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السؤال الرابع
$x=0$ عند $f(x)=rac{3x-4}{x+2}$ : $f$ عند $f(x)=\frac{3x-4}{x+2}$
(8 درجات) (8 المحل: ال

تابع السؤال الرابع:
( b ) يعتقد مدير شركة أن متوسط رواتب المستخدمين لديه 290 دينار ، فإذا أخذت عينة
( 0 ) يعلقد مدير سرحه ال متوسط روايب المستحسين عيد - 12. الحد الأمرافيا ا
عشوائية من 10 مستخدمين و تبين أن متوسطها الحسابي $\overline{x} = 283$ دينار وإنحرافها
المعياري S = 32 دينار . فهل يمكن الإعتماد على هذه العينة لتأكيد ما إفترضه باستخدام
مستوى ثقة 95 % (علما بأن المجتمع يتبع التوزيع الطبيعي) (6 درجات)
المحل:

القسم الثاني ( الأسئلة الموضوعية ):

	Janas Latter Methics Italy to	
	(a) إذا كانت العبارة صحيحة و $(b)$ إذا كانت العبارة خاطئة $(b)$	رِلاً: هي البنود (2 - 1) طلل في
	[-1,3] عند $g$ ، $[-3,1]$ دالة متصلة على $x=0$	إذا كانت الدالة $f$ متصلا فإن $f+g$ هي دالة م
Table to the same of the same	$f'(1) = \frac{1}{4}$ فإن $f(x) = \sqrt{x+4}$	(2) إذا كانت الداله f
ىدىدة	ل بند أربع إختيارات واحد منها فقط صحيح اختر الإجابة الص ال على الإجابة الصحيحة :	انيا : فٰي البنود (10 – 3) لك م ظلل في جدول الإجابة الرمز الا
(3)	$\lim_{x\to 3^-}\frac{5}{(x-3)}=$	
	$(a) \infty$ $(b) -\infty$	
	$(c) 5 \qquad \qquad (d) 0$	
		: إذا كانت
	$\lim_{x\to\infty}\frac{ax^2+bx+3}{2x+5}=3$	a , $b$ فإن قيم الثابتين
	(a) a = 0 , b = 6 $(b) a = 0 , b =$	6
······································	(c) a = 0 , b = 2 $(d) a = 0 , b = 0$	= -2
	فیمایلی هي $x=2$	(5) الداله المتصلة عند
(a) f	$f(x) = \sqrt{x-2} \qquad (b) \ g(x) =  x-x $	- 2
(c) h	$h(x) = \frac{1}{x-2}$ $(b) k(x) = \frac{x-1}{x^2}$	- <u>2</u> - <u>4</u>
	نساوي $f'\left(0 ight)$ فإن $f(x)=3x+tan$	(6) إذا كانت الدالة (6)
(a)	0 (b) 1	
(c)	3 (d) 4	

$f(x) = \left x^2 - 1\right  : f$ الدالة	(7)
(a) قيمة صغرى مطلقة (b) قيمة عظمى مطلقة	
نقطتان حرجتان فقط $(d)$ لیس أیا مما سبق $(c)$	
f إذا كانت الدالة $f'(x)=-3x: f'$ فإن الدالة	(8)
$(0,\infty)$ متزایدة علی الفترة $(\mathbf{a})$	Print and the second se
متزایدة علی مجال تعریفها $(b)$	
$(c)$ متزايدة على الفترة $(\infty,0)$ ، متناقصة على الفترة $(c)$	
$(-\infty,0)$ متناقصة على الفترة $(d)$	www.pattery.
: مماس رأسي معادلته $f(x) = \sqrt[3]{x-1}$ الدالة	(9)
(a) x = 0    (b) x = 1	
(c) y = 0    (d) y = 1	
في دراسة لمجتمع إحصائي تبين أن متوسطه الحسابي $\mu=125$ أخذت عينة من هذا المجتمع حجمها $n=36$ فتبين أن متوسطهما الحسابي $\overline{x}=130$ إذا كان المقياس الإحصائي $\overline{x}=3.125$ فإن الإنحراف المعياري $\sigma$ تحت مستوى ثقة $95\%$ يساوي	(10)
(a) - 9.6 $(b) 6.9$	
(c) $9.6$ (d) $-6.9$	

إنتهت الأسئلة ،،،

#### دولــة الكويت وزارة الـتربية

إمتحان نهاية الفترة الدراسية الثانية للصف الثاني عشر علمي 2015 / 2016 م المجال الدراسي: الرياضيات الزمن: ساعتان و 45 دقيقة الأسئلة في 12 صفحه

القسم الأول: أسئلة المقال:

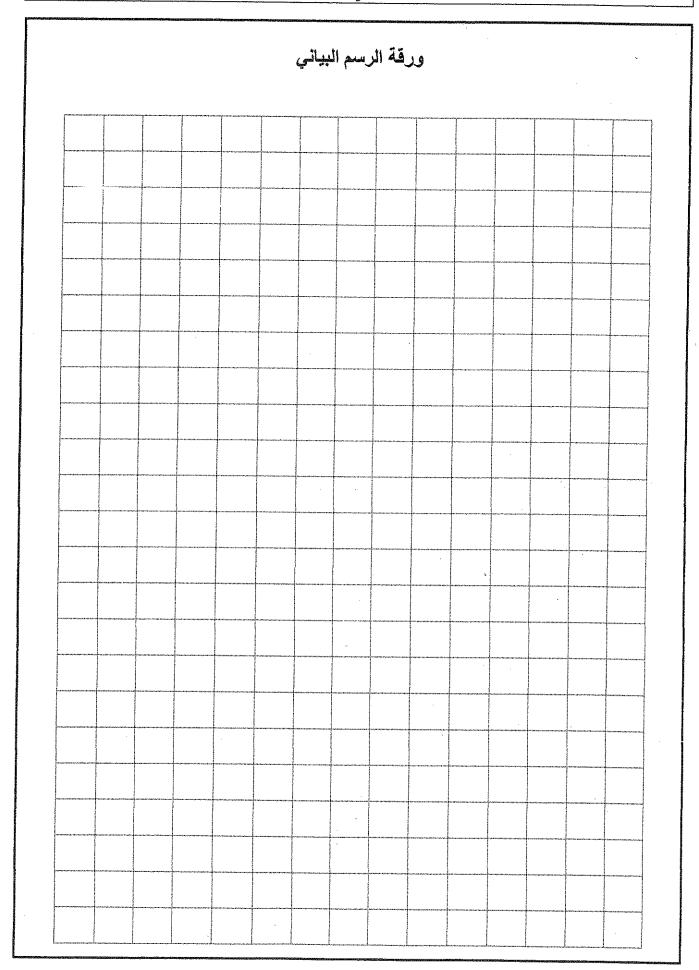
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		DTTTMAPPIAPHARITICANIUM MANUTECEPTURIANNI ARMENINA (ALE TARANIA AMBARITICANIA AMBARITICANIA AMBARITICANIA AMBARITICANIA
		ikkasakana manana nyapita jakisi isi dahana hammiyan jaji ili karaika maghangga bala mamyi angun tangun tangun Manana manana nyapita jakis ili kabana hammiyan jaji ili karaika maghangga bala mamyi angun tangun tangun tang
and the state of t		re i menere en
mapped profession and red and the desired contracts are neglegable before a more properties the desired and recovery seed to be desired to the contract of the desired to the contract of the		and the moment is quarted project of the construction of the const
		atemptetar programmen and the second state of



10			السوال الثالث:
10	$g(x)=\sqrt{x}$	$:g$ الدالة، $f(x)=x^2$ -	-3x : $f$ لتكن الدالة ( $a$ )
(4 درجات)	49 N <sup>ago</sup> la di Adalaska (119 yang) Nago 164 da da da da ana ana ang 16 yang ka kalaba ana ana ang		(gof) إبحث إتصال الدالة
Miller was to make at a consequent beginning or common on a parameter s habitation of the code common and			
ANTINI PARAMETER PROPERTY OF ANTINISM ANTINISM ANTINISM CONTRACTOR OF ANTINISM CONTRACTOR CONTRACTOR CONTRACTOR	in the section of the	teliktelenges pil PHO sammensya is skil disekser tenga telebiska kenanya samen kenanya isak dibenahan kenanya isak didakser tenga telebiska kenanya isak didakser tenga teng	
And the second s	The state of the s		No who despote the second control in the sec
erroma na amanda haka dhigi af maman taran na la laguna i Pierro, isiya ja ba'afa dan inka u		annual and the property of the control of the contr	
and and the works to the deficient southern than the second and th			
erretamin meneljan (emojaki) jarikemberumen ena ljumen anaparita jangaken jaleka i	And the second s		
errester formater de demokrafikasikasikasikasikasikasikasikasikasikas			
nazaran wasa za 1119664 sabhalan masha masaqa 11464(11666) indoner	arraga arraga di Maraja da manana na man		
erentet terrente de treite (f.), de debenom en mengr 43 (1916/14) (1916/14) (1916/14) vermen se se mengr On terrente (f.), de debenom en mengret se france (f.), de deben de de mengret se mengret se de se mengret (f.)			
rien vers er Lannaum alle getydd yf diwindol ei ddiwir dei andan di sychaellidd y ganleg (e ciliad o'r	ensidenteraren dili fira hand al filliole Habiturdan dinpolificial bidentera i enema da mestamon sidente del	hadra a spenjeriji i dat nahaza nejeniji 27 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	
	The state of the s	9NCOM kada na ayung Gold da Bida ang saripadi ki nahuman ang ugan pilibanakan ang ugan 11 da da kasan ng ungapap piliba	oon de lander parago john de lander groot een een john de lander groot jerkijs de meer op heeft je de meer op heeft de lander groot jerkijs de lander groot
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nnes förfarriginnen nels (1914 i säret fri 1914 förstöre random för selvallist förfarligt ett fri med ett förm	Jacobson restrenți i i i i i i i i i i i i i i i i i i	-diahat agusujusi, jahanna terru pagaida sateri teerapada kiristi ninda een jaga aja da kahanna sa jaga da kah	
- March   1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
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onennen ti järst (tri johi 4118-tili tili tili tili tili tili tili tili	we man his said to the control of th	odddir a mae'r thaifu ffodd an olau gang ing gyf ddian tulaun trago'n y bland ffodd arfan a conson yn y bland a chwar	
ste (il transcritt i koga nemojog primonja i governje jedinom masovir na congre om primonje postava primonja i kongret i koga na koja n			
Parker   M. C. (2014 CHI Arrown) or a survival and a state of the super park for the State, Add Construction park	Name of the State		
Philosophyl ergypy (-pressum medisferða eð meða Válað 1627) ( (eggepa a renna va la fallið)	) ka diki aliun muutuu juga di ka		
rangen processar med simple despitates excessar mensured shell gipter excessar medical shell of the constraint of the co			
t talend i tremeda hermanger i salgistij i deladeran de consensacijanje, teknoba hi bodolove d	The Section of the State of the Section of the Sect		
na) - 1944 y magnet (1 y milist fat 1 del 1944 i 1499 (2 milistra princip y na resencente i bellika ji 119 yer wy p	r ramon i tra (A), i i i i i i i i i i i i i i i i i i i	merriji i i i forma same same ti i i i i i i i i i i i i i i i i i i	
Majjakari Pajara pa Lafonin dara 2016 tahi Gigan gi spanjagan manari 14 da 1840 da januara.			
i Lastinan el <sup>s</sup> tendi a 4 majas el s'emanem a sofficant el elstrito è de rigicipam un general destrito de la comp	Helimberdunall-hami genadomentus maa jaajati (Hidushaa moosta ayan jaajajajajaj		
9 Miller kan firk marier 1940 ga (1940 - 1940 kan lawan marier 1940 ga k	Hilli (Wheeld i bear) we comment out of the Add (i) bear a considerable of the Add (ii) bear a considerable of the Add (iii) bear a c		

The second secon		### #################################	تابع السؤال الثالث
	$f(x) = x + \frac{4}{x}$	f متصلة على [1,4]	
( 6 درجات)		سوى المطلقة للدالة في الفترة	
			ennahluk tennang sagi gapi dipindi bahakan menggung piping (polasi polasi dibid dibina menuncun untuk papa Halipan 1,7,7,4,4,4,4,4,4,4,4,4,4,4,4,4,4,4,4,4,
			1900) - Navy Walder Banner en stelle til e til skrivet, så skrivet en på skrivet i 1900 (18 Genedersa 1906 e s I 1900) - Navy Walder Banner en skrivet i 1900 (1900) – Navy Waldersa 1900 (1900) (1900) (1900) (1900) (1900)
		TO POPULATION OF THE STATE OF T	iddi Barrina alan i i kison norsotri i jeki i juhu adan yana i qiji ya i jenjay bi kisonin meni
			) ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( (
			terasian paga-tari menintana atal liaperiyan kana aran malaman perima in terasia da tari
			ikkoor na na na projessa suke ka kumba paga ka digi ta pikka (di di seber enkera a sasa).
			e egyen i Maria Particologia (Particologia (Particologia (Particologia (Particologia) (Particologia) (Particologia (Particologia) (Particolog
			erikan kan na manana manana kan kan kan kan kan kan kan kan ka
			u potenta ja kantan pad (shi) kutoma a kantan pad kunga (kunga kunga menun menun menun menun menun menun menun Melaka kantan kunga terbagai (1) Melaka da kunda sapun menun kunga kunga kunga kunga kunga kunga kunga kunga k
			sannah pudakun saga appanjanjan kihika ka kasansa japan anjakih kihika di fikama sani.
one-makes demonstrated to 2010 00 00 11 No 10 No	MI (CONTO) IN CONTO AND		ranna arterishi milikani taksishi (1) jajaka arrandi shi mishi ta jajak Prinjeja ji jajara ana
			eter janu i san igapus sa salikus armai na 1860 ji 1900 gayi terjamparan adam hadifelik terlesistekish i An isan i san igapus sa salikus sa
	tonabus 111 debilate debi (en 1800 debilat 1900 debilat debilat para debila en 1810 en 1970 y Malyano estado		10 PP-110 h-13-ri Dr. Arijilli ishi ishi ishi sakurqarang tagarat (13 ka
			ren ara manere eta esta eta ega era perioria irialeia altabela ara eta eta era eta eta eta eta eta eta eta eta Arabela irialeia eta esta eta eta eta eta eta eta eta eta eta e
			racional del Gibert (Standord Hilliande) (Philosophia in America, Morroy) (Hilliands) anno anno ann ann an ang
			n samma partuusen ja pija (1971) (1964) ole ka
			rriffransistansistansistansistansistansistansistansistansistansistansistansistansistansistansistansistansistan

10 ( 6 درجات)	<i>f</i> ( <i>x</i> ) =	$\sqrt{2}\sqrt{x}$	$\begin{array}{c} : x < 1 \\ : x \ge 1 \end{array}$	السؤال الرابع (a) لتكن الدالة f : دالة متصلة على مجالها
	Pitradroiniishiladi (heindi Madala 180040 hii 1911 m Haringa (heindi hii 1800) hii maraya (heindi haringa 1917 m	<u></u>		
Managarten (1821 fam 1822) - 1277 (1820 ann agus ann tao chuir bhirliúil (1824 bhilliúil (1824 1824 1824 1824 1824 1824 1824 1824	eg palategyetet kansan tantanish memononya elesses tatahan si me Palaten samakan serencesar samban sahahan elebah kali decisi samban			
	gyjaand, ejame <sub>e</sub> nkan sejecht, tota jenet tel <sub>e</sub> t seject e Amerikaan (Properties e Amerikaan (Properti			
warment van het i 1486 de 1800 Weste, in treesprensprensprensprensprensprensprensp			and pass and enternance of the contract of the	
	er gerken in der gerkel des er freigenen bestehe der der der der der der der der der de	don way birnin bulbah anta a way birnin ada ba Mari andra Millia (Millia (Mill		
	esem menementalismaski a mariko-bashedus (r yn droc (artikolo)). Ma Mariko (artikolo)			
	n nakid dali dalika 1 kabaptan ja kapid nakid naki Nakid nakid na			
	he (hel westlikk lithbett d'A (specier) propint ausern as propins arro		antaun kuntunkun relakukurketa kuntun kun errusu olahadi (n. 1879 A. 1960 Hill).	
			344481644147144717144979144979149791497914979	
	ann a mandra metadak sebilka Miko Bibbi Bibbi Bibbi Babbi ba Mad Metada Bibbi Bibbi Metada Bibbi Bibbi Metada Bibbi Bibb	iosani aranteenti comi i recenti co		
	often religible of federals (fed) in 100 (ch v 2004) in decidable in d			
	ggarjamaja organizajama apport je organizajama i resistrati			
	omattemikiri (1010)) (((((((((((((((((((((((((((((((	ggetten generation op 111 jan jan jan generation om en		
	ar i moseccia minutal la 77 (10 (10 H)) Moseccia i 18 (10 km/m) (10 H) (10 km/m) (10 H) (10 km/m) (10 H) (10 km/m) (10 H)	andre Maria Maria Maria de maria de la compansión de Maria Maria de Maria Maria de Maria Maria de Maria de Mar Provincia Maria maria de la compansión de la compansión de Maria Mari		
The constitution of the second	ON THE STANDARD HE SHADOW AND A STANDARD AND A STAN			
	NACINATIONALII ISSUURA (AMBERAMAII) OH 1916 OHA HAVISHAD H Issuura (Amberamaii) Oha (Amberamaiii) Oha (Amberamaiii) Oha (Amberamaiii) Oha (Amberamaiii) Oha (Amberamaiii) Oha (A			

الرابع:	تابع السؤال
$\overline{x}=50$ عينه عشوائية من مجتمع طبيعي حجمها $n=81$ ومتوسطها الحسابي هو $\overline{x}=50$	(b) أخذت
لمعياري S=9 بإستخدام مستوى ثقة %95 أوجد هامش الخطأ	و إنحرافها ا (1)
أوجد فترة الثقة للمتوسط الحسابي للمجتمع الإحصائي µ	(2)
فسر فترة الثقة	(3)
	i Principi de La militar y seman amendra an pri para que para para la junça de junça de junça de junça de junç Principi de la militar de la mi
	am milagapa () () () () (-) (-) (mm-dy ) yan ilagaan yan agaa a la agaas k ka br>Milagaan ilagaan ka
	i mihasang ganggap ya najadda afaraka 14 Album raka manazarara Janisang ganggap ya najada afaraka ya najada ya ya ya najada ka najada ka najada ka najada ka najada ka najada
	na mag biga fifthialacha ar leann sian sig Runggai, (p. 10. Milled for fi, 10. Imited for each sign of the sign of
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	(Olson signosisti pristi i distri (d) moli ordenom en re
	1947 half framerinning stamming to his fill half bendum ha and in us a to the
	774 Odna marini uz spania uz Stoja i farobul na inan ni ri 1784 Odna marini uz spania uz Stoja i farobul na inan ni ri
	MATERIA (e gamena) kalendar ar kalendar (e kalendar) et beskular era b
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	T THE OWN COME TO SERVE STATE OF THE SERVE STATE OF
	n na natiri tersa (ranspirjana na laka (i (raspirja))
	MANISAN (efectorismus un
	r semente productive de la company de la com
	Annual Later and Cold Control of the Commission of the Cold Cold Cold Cold Cold Cold Cold Cold
	(Chaman Paraman Majarina (Africa) (Armania Manania Manania Majarina (Africa) (Armania Manania (Africa) (Armania (Armania (Africa) (Armania (Armania (Africa) (Armania (Africa) (Armania (Africa) (Armania (Armania (Africa) (Armania

القسم الثاني ( الأسئلة الموضوعية ):

ثاني (الأسئلة الموضوعية):	القسم ال
البنود (3-1) ظلل في جدول الإجابة (۵) إذا كانت العبارة صحيحة	<u> أولا</u> : في
و (b) إذا كانت العبارة خاطئة	
$(1)  \lim_{x \to -\infty} \frac{x}{ 2x-3 } = \frac{1}{2}$	
$\displaystyle \lim_{x o -2^+} f(x) = f(-2)$ : فإن $[-2,3]$ فإن $f(x)$ دالة متصلة على	(2)
$\mathbb{R}$ هو $f'$ فإن مجال $f(x) = egin{cases} x^2 + 2x & : & x \geq 1 \ 4x - 1 & : & x < 1 \end{cases}$ هو آ	(3)
البنود (10-4) لكل بند أربع إختيارات واحد منها فقط صحيح اختر الإجابة الصحيحة ثم جدول الإجابة الرمز الدال على الإجابة الصحيحة:	ثانيا : في ظلل في .
$\lim_{x \to 4} \frac{\sqrt{x}-2}{x-4}$ المي:	(4)
(a) 0 (b) $-\frac{1}{4}$	
(c) غير موجوده $(d)$ غير موجوده	
$x=0$ الدالمة $f(x)=egin{cases} rac{\sqrt{x+4}-2}{x} &: x eq 0 : f$ متصلة عند $a : x=0$ إن $a$ تساوي	(5)
(a) 4 (b) $-\frac{1}{4}$	
$(c) -4 \qquad \qquad (d)  \frac{1}{4}$	
ن الدالة $f(x)=x+\sqrt{x^2}+2$ ليست قابلة للإشتقاق عند $f(x)=x+\sqrt{x^2}+2$ ن الدالة	(6)
(a) مماس عمودي	
(b) إنفصال	777114.00
بان (c)	
(d) رکن	

(3) 
$$\frac{dy}{dt}$$
 ناف  $y = \frac{4}{3\pi} \sin 3t - \frac{4}{5\pi} \cos 5t$  نابد ناف  $y = \frac{4}{3\pi} \sin 3t - \frac{4}{5\pi} \cos 5t$  (b)  $\frac{4}{\pi} \sin 3t - \frac{4}{\pi} \cos 5t$  (c)  $\frac{4}{\pi} \cos 3t - \frac{4}{\pi} \sin 5t$  (d)  $\frac{4}{\pi} \cos 3t - \frac{4}{\pi} \sin 3t$  (8)  $\frac{4}{\pi} \cos 3t - \frac{4}{\pi} \sin 3t$  (8)  $\frac{4}{\pi} \cos 3t - \frac{4}{\pi} \sin 3t$  (8)  $\frac{4}{\pi} \cos 3t - \frac{4}{\pi} \sin 3t$  (9)  $\frac{4}{\pi} \cos 3t - \frac{4}{\pi} \sin 3t$  (9)  $\frac{4}{\pi} \cos 3t - \frac{4}{\pi} \sin 3t$  (10)  $\frac{4}{\pi} \cos 3t - \frac{4}{\pi} \sin 3t$ 

إنتهت الأسئلة ،،،

#### قوانين الإحصاء

$$Z_{\frac{\alpha}{2}} = Z_{\frac{1-\alpha}{2}}$$
 ;  $-Z_{\frac{\alpha}{2}} = -Z_{\frac{1-\alpha}{2}}$  (الخطأ المعياري للمجتمع)  $Z_{\frac{\alpha}{2}} = Z_{\frac{\alpha}{2}} \cdot \frac{\sigma}{\sqrt{n}}$  (هامش الخطأ – توزيع طبيعي)  $Z_{\frac{\alpha}{2}} = I_{1-\frac{\alpha}{2}}$  (التوزيع المحتايي  $Z_{\frac{\alpha}{2}} = I_{1-\frac{\alpha}{2}}$  (المقياس الخطأ – توزيع  $Z_{\frac{\alpha}{2}} = I_{1-\frac{\alpha}{2}}$  (المقياس الإحصائي – توزيع طبيعي – الانحراف المعياري  $Z_{\frac{\alpha}{2}} = I_{1-\frac{\alpha}{2}}$  (المقياس الإحصائي – توزيع طبيعي – الانحراف المعياري  $Z_{\frac{\alpha}{2}} = I_{1-\frac{\alpha}{2}}$  (المقياس الإحصائي – توزيع طبيعي – الانحراف المعياري  $Z_{\frac{\alpha}{2}} = I_{1-\frac{\alpha}{2}}$  (المقياس الإحصائي – توزيع طبيعي – الانحراف المعياري  $Z_{\frac{\alpha}{2}} = I_{1-\frac{\alpha}{2}}$  (المقياس الاحصائي – توزيع طبيعي – الانحراف المعياري  $Z_{\frac{\alpha}{2}} = I_{1-\frac{\alpha}{2}}$  (المقياس الاحصائي – توزيع  $Z_{\frac{\alpha}{2}} = I_{1-\frac{\alpha}{2}}$  (المقياري  $Z_{\frac{\alpha}{2}} = I_{1-\frac{\alpha}{2}} = I_{1-\frac{\alpha}{2}}$  (المقياري  $Z_{\frac{\alpha}{2}} = I_{1-\frac{\alpha}{2}} = I_{1-\frac{\alpha}{2}}$  (المقياري  $Z_{\frac{\alpha}{2}} = I_{1-\frac{\alpha}{2}} = I$ 

جدول التوزيع الطبيعي المعياري (Z)

Z	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
0.0	0.0000	0.0040	0.0080	0.0120	0.0160	0.0199	0.0239	0.0279	0.0319	0.0359
0.1	0.0398	0.0438	0.0478	0.0517	0.0557	0,0596	0.0636	0.0675	0.0714	0.0753
0.2	0.0793	0.0832	0.0871	0.0910	0.0948	0.0987	0.1026	0.1064	0.1103	0.1141
0,3	0.1179	0.1217	0.1255	0.1293	0.1331	0.1368	0.1406	0.1443	0.1480	0.1517
0.4	0.1554	0.1591	0.1628	0.1664	0.1700	0.1736	0.1772	0.1808	0.1844	0.1879
0.5	0.1915	0.1950	0.1985	0.2019	0.2054	0.2088	0.2123	0.2157	0.2190	0.2224
0.6	0.2257	0.2291	0.2324	0.2357	0.2389	0.2422	0.2454	0.2486	0.2517	0.2549
0.7	0.2580	0.2611	0.2642	0.2673	0.2704	0.2734	0.2764	0.2794	0.2823	0.2852
0.8	0.2881	0.2910	0.2939	0.2967	0.2995	0.3023	0.3051	0.3078	0.3106	0.3133
0.9	0.3159	0.3186	0.3212	0.3238	0.3264	0.3289	0.3315	0.3340	0.3365	0.3389
1.0	0.3413	0.3438	0.3461	0.3485	0.3508	0.3531	0.3554	0.3577	0.3599	0.3621
1.1	0.3643	0.3665	0.3686	0.3708	0.3729	0.3749	0.3770	0.3790	0.3810	0.3830
1.2	0.3849	0.3869	0.3888	0.3907	0.3925	0.3944	0.3962	0.3980	0.3997	0.4015
1.3	0.4032	0.4049	0.4066	0.4082	0.4099	0.4115	0.4131	0.4147	0.4162	0.4177
1.4	0.4192	0.4207	0.4222	0.4236	0.4251	0.4265	0.4279	0.4292	0.4306	0.4319
1.5	0.4332	0.4345	0.4357	0.4370	0.4382	0.4394	0.4406	0.4418	0.4429	0.4441
1.6	0.4452	0.4463	0.4474	0.4484	0.4495	0.4505	0.4515	0.4525	0.4535	0.4545
1.7	0.4554	0.4564	0.4573	0.4582	0.4591	0.4599	0.4608	0.4616	0.4625	0,4633
1.8	0.4641	0.4649 .	0.4656	0.4664	0.4671	0.4678	0.4686	0.4693	0.4699	0.4706
1.9	0.4713	0.4719	0.4726	0.4732	0.4738	0.4744	0.4750	0.4756	0.4761	0.4767
2.0	0.4772	0.4778	0.4783	0.4788	0.4793	0.4798	0.4803	0,4808	0.4812	0.4817
2.1	0.4821	0.4826	0.4830	0.4834	0.4838	0.4842	0.4846	0.4850	0.4854	0.4857
2.2	0.4861	0.4864	0.4868	0.4871	0.4875	0.4878	0.4881	0.4884	0.4887	0.4890
2.3	0.4893	0.4896	0.4898	0.4901	0.4904	0.4906	0.4909	0.4911	0.4913	0.4916
2.4	0.4918	0.4920	0.4922	0.4925	0.4927	0.4929	0.4931	0.4932	0,4934	0.4936
2.5	0.4938	0.4940	0.4941	0.4943	0.4945	0.4946	0.4948	0.4949	0.4951	0.4952
2.6	0.4953	0.4955	0.4956	0.4957	0.4959	0.4960	0.4961	0.4962	0.4963	0.4964
2.7	0.4965	0.4966	0.4967	0.4968	0,4969	0,4970	0.4971	0.4972	0.4973	0.4974
2.8	0.4974	0.4975	0.4976	0.4977	0.4977	0.4978	0.4979	0.4979	0.4980	0.4981
2.9	0.4981	0.4982	0.4982	0.4983	0.4984	0.4984	0.4985	0.4985	0.4986	0.4986
3.0	0.4987	0.4987	0.4987	0.4988	0.4988	0.4989	0.4989	0.4989	0.4990	0.4990
3.10	0.4999									
وأكثر										
		***************************************				· · · · · · · · · · · · · · · · · · ·	<del> </del>			

ملاحظة: استخدم 0.4999 عندما تزيد قيمة Z عن 3.09

			ندول التوزيع <i>t</i>	~					
$\frac{\alpha}{2}$									
درجات الحرية $(n-1)$	0.005	0.01	0.025	0.05	0.10	0.25			
(# - 1)									
1	63.657	31.821	12.706	6.314	3.078	1.000			
2	9.925	6.965	4.303	2.920	1.886	0.816			
3	5.841	4.541	3.182	2.353	1.638	0.765			
4	4.604	3.747	2.776	2.132	1.533	0.741			
5 .	4.032	3.365	2.571	2.015	1.476	0.727			
6	3.707	3.143	2.447	1.943	1.440	0.718			
7	3.500	2.998	2.365	1.895	1.415	0.711			
8	3,355	2.896	2.306	1.860	1.397	0.706			
9	3.250	2.821	2.262	1.833	1.383	0.703			
.10	3.169	2.764	2.228	1.812	1.372	0.700			
11	3.106	2.718	2.201	1.796	1,363	0.697			
12	3.054	2.681	2.179	1.782	1.356	0.696			
13	3.012	2.650	2.160	1.771	1.350	0.694			
14	2.977	2,625	2.145	1.761	1.345	0.692			
15	2.947	2.602	2.132	1.753	1.341	0.691			
16	2.921	2.584	2.120	1.746	1.337	0.690			
17	2.898	2.567	2.110	1.740	1.333	0.689			
18	2.878	2.552	2.101	1.734	1.330	0.688			
19	2.861	2,540	2.093	1.729	1.328	0.688			
20	2.845	2.528	2.086	1.725	1.325	0.687			
21	2.831	2.518	2.080	1.721	1.323	0.686			
22	2.819	2.508	2.074	1.717	1.321	0.686			
23	2.807	2.500	2.069	1.714	1.320	0.685			
24	2.797	2,492	2.064	1.711	1.318	0.685			
25	2.787	2.485	2.060	1.708	1.316	0.684			
26	2.779	2.479	2.056	1.706	1.315	0.684			
27	2.771	2.473	2.052	1.703	1.314	0.684			
28	2.763	2.467	2.048	1.701	1.313	0.683			
29	2.756	2.462	2.045	1.699	1.311	0.683			
30 وأكثر	2.575	2.327	1.960	1.645	1.282	0.675			