

التاريخ: / /1438 ه

الصف : الأول ثانوي

الزمن : ثلاث ساعات

**إختبار الفصل الدراسي الثاني**

المادة : رياضيات (2)

**للعام الدراسي 1438 ه**

**إسم الطالب /**......................................

**رقم الطالب /**........................ **الشعبة /**..............

**المملكة العربية السعودية**

**وزارة التربية والتعليم**

**الإدارةالعامة للتربية والتعليم**

**السؤال الأول :** ــ **إختر الإجابة الصحيحة فيما يلي ثم ظلل إختيارك في الورقه الأخيره :**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1 | | **مجموع قياسات الزوايا الداخلية لمضلع سداسي منتظم هو :** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **ا** | | | | | | | | | | 180º | | | | | | | | **ب** | | | | | | | | | | 360º | | | | | | | | | **ج** | | | | | | | | | | 1080º | | | | | | | | | **د** | | | | 720º | | | | | | | | | | | | | | | | | | |
| 2 | | **مجموع قياسات الزوايا الخارجية لأي مضلع منتظم تساوي :** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **ا** | | | | | | | | | | 180º | | | | | | | | **ب** | | | | | | | | | | 720º | | | | | | | | | **ج** | | | | | | | | | | 540º | | | | | | | | | **د** | | | | 360º | | | | | | | | | | | | | | | | | | |
| 3 | | **إذاكان قياسا زاويتين متحالفتين في متوازي أضلاع** 2 *x*  ،3 *x* **فما هو قياس الزاويتين** : | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **ا** | | | | | | | | | | 30º , 20º | | | | | | | | **ب** | | | | | | | | | | 36º , 72º | | | | | | | | | **ج** | | | | | | | | | | 30º , 150º | | | | | | | | | **د** | | | | 108º , 72º | | | | | | | | | | | | | | | | | | |
| 4 | | **متوازي الأضلاع الذي فيه القطران متعامدان يكون** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **ا** | | | | | | | **شبه منحرف** | | | | | | | | | | **ب** | | | | | | | | | | **مستطيل** | | | | | | | **ج** | | | | | | ***معين*** | | | | | | | | | | | | | | | | **د** | | | | **طائرة ورقية** | | | | | | | | | | | | | | | | | | |
| 5 | | QRST **شبه منحرف إذا كان** A **منتصف** , B **منتصف**  فإن AB تساوي : | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **ا** | | | | | | | 12 | | | | | | | | | | **ب** | | | | | | | | | | 20 | | | | | | | **ج** | | | | | | 16 | | | | | | | | | | | | | | | | **د** | | | | 36 | | | | | | | | | | | | | | | | | | |
| 6 | | في الشكل المقابل إذا كانAG = *x +3*  **,** GC = 2 *x -* 1 فإنAC تساوي**:ـ** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **ا** | | | | | | | | | | | 12 | | | **ب** | | | | | | | | | | | | 4 | | | | | | | **ج** | | | 14 | | | | | | | | | | | | | | | | | | | د | | | | 7 | | | | | | | | | | | | | | | | | | | |
| 7 | | **إحداثيات نقطة تقاطع قطري متوازي الأضلاع الذي رؤوسه**D(0,-1) , C(4,0) , B(6,6), A(2,5) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **ا** | | | | | | | | **(3,5)** | | | | | | | | | | **ب** | | | | | | | | | | **(3 ,)** | | | | | | | | | | **ج** | | | | | | | | | | **(3 ,)** | | | | | | | | | | | | | | | | | | | | | | | | | | **د** | | | | **(4 ,)** |
| 8 | | الشكل المقابل مستطيل , إذا كان*m*∠1 = 30ºفإن*m*∠ 2 تساوي**:ـ** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **ا** | | | | | | | | | 30º | | | **ب** | | | | 60º | | | | | | | | | | | | | | | | | | | | | | | **ج** | | | | | | | | | | 90º | | | | | | | | | **د** | | | | | | | | 150º | | | | | | | | | | | | |
| 9 | | **مستطيلان متشابهان . إذا كان معامل التشابه بينهما 3:5 ومحيط المستطيل الأكبر 65 m .فما محيط المستطيل الأصغر** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **ا** | | | | | | | 50 m | | | | | | | | | | **ب** | | | | | | | | | | 39 m | | | | | | | **ج** | | | | | | 49 m | | | | | | | | | | | | | | | | **د** | | | | 29 m | | | | | | | | | | | | | | | | | | |
| 10 | | **من الشكل المقابل تكون قيمة** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **ا** | | | | | | | | | 4.5 | | | **ب** | | | | 9 | | | | | | | | | | | | | | | | | | | | | | | **ج** | | | | | | | | | | 6 | | | | | | | | | د | | | | | | | | 7 | | | | | | | | | | | | |
| 11 | | **من الشكل المقابل تكون قيمة** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **ا** | | | | | | | | | 8 | | | **ب** | | | | 9 | | | | | | | | | | | | | | | | | | | | | | | **ج** | | | | | | | | | | 6 | | | | | | | | | د | | | | | | | | 7 | | | | | | | | | | | | |
| 12 | | **من الشكل المقابل تكون قيمة** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **ا** | | | | | | | | | 8 | | | **ب** | | | | 9 | | | | | | | | | | | | | | | | | | | | | | | **ج** | | | | | | | | | | 6 | | | | | | | | | د | | | | | | | | 7 | | | | | | | | | | | | |
| 13 | | **يبلغ طول ظل برج إتصالات هاتفية** 100ft . **وفي الوقت نفسه يبلغ إرتفاع بناية مجاورة** للبرج 3ft وطول ظلها 4ft **.** فإن إرتفاع البرج يساوي:ـ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **ا** | | | | | | | | | 30ft | | | **ب** | | | | 40ft | | | | | | | | | | | | | | | | | | | | | | | **ج** | | | | | | | | | | 100ft | | | | | | | | | د | | | | | | | | 75ft | | | | | | | | | | | | |
| 14 | | **القطعة ................ للمثلث توازي ضلعاً للمثلث ، وطولها نصف طوله** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **ا** | | | | | | | المحيطية | | | | | | | | | | **ب** | | | | | | | | | | **العمودية** | | | | | | | **ج** | | | | | | السداسية | | | | | | | | | | | | | | | | **د** | | | | **المنصِّفة** | | | | | | | | | | | | | | | | | | |
| 15 | | **من الشكل المقابل الذي يمثل معين , إذا كانت** فإن  **تساوي** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **ا** | | | | | | | | | 75º | | | **ب** | | | | 60º | | | | | | | | | | | | | | | | | | | | | | | **ج** | | | | | | | | | | 45º | | | | | | | | | **د** | | | | | | | | 30º | | | | | | | | | | | | |
| 16 | | **النقطة**  هي صورة النقطة  **بالإنعكاس حول** **:ـ** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **ا** | | | | | | | **الدائرة** | | | | | | | | | | **ب** | | | | | | | | | | **محور الصادات** | | | | | | | **ج** | | | | | | **محور السينات** | | | | | | | | | | | | | | | | **د** | | | | **الخط المستقيم** *y = x* | | | | | | | | | | | | | | | | | | |
| 17 | | **صورة النقطة** **بالإزاحة** (*x*, *y*) → (*x* + 5 , *y* -1) **هي :** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **ا** | | | | | | (3, -4) | | | | | | | | | | | | | | | | | | **ب** | | | | | | | | (2,-3) | | | | | | | | | | | | | **ج** | | | | | | | | | (3,- 3) | | | | | | | | | | **د** | | | | | | (-3, 2) | | | | | | | | |
| 18 | | **صورة النقطة**  **بالدوران حول نقطة الأصل بزاوية** 270º **في اتجاه ضد عقارب الساعة هي :** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **ا** | | | | | (3,-2-) | | | | | | | | | | | | | | | | | | **ب** | | | | | | | | (2,-3) | | | | | | | | | | | | | **ج** | | | | | | | | (3, 2) | | | | | | | | | | | **د** | | | | | | (-3, 2) | | | | | | | | | |
| 19 | | **صورة النقطة** **بالإنعكاس حول محور** **ثم إزاحة وفقاً للقاعدة** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **ا** | |  | | | | | | | | | | | **ب** | | | | | |  | | | | | | | | | | | | | | | | **ج** | | | | | | | | | | |  | | | | | | | | | | | | | | | | **د** | | | | | |  | | | | | | | | | | |
| 20 | | **صورة النقطة** ( (3, -2**الناتجة عن تمدّدٍ مركزه نقطة الأصل ومعامله** = 2 ***r*** **هي:ـ** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **ا** | | | (2,-3) | | | | | | | | | | | | | | | | | **ب** | | | | | | | | | (6,-4) | | | | | | | | | | | | **ج** | | | | | | | | | (-6,4) | | | | | | | | | | | | | | | | | | | | | | **د** | | | | (3,-2) | | |
| 21 | | **رتبة التماثل الدوراني للسداسي المنتظم تساوي** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **ا** | | | | | 4 | | | | | | | | | | | **ب** | | | | | | | | | | 6 | | | | | | | | | | | | | | | | | | **ج** | | | | | | | | | | 5 | | | | | | | | | | | | | | | | | | **د** | | | | 7 | | | |
| 22 | **إذا كانت | *r* |<** 1 **يكون التمدد :ـ** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **ا** | | | | | تصغيراً | | | | | | | | | | | | | | | | | **ب** | | | | | | | | | تكبيراً | | | | | | | | | | | | | **ج** | | | | | | | | تحويل تطابق | | | | | | | | | | | | | | | | | | | | | | **د** | | | | غير ذلك | |
| 23 | **رؤوس الشكل الرباعي** HJLK **هي:** ( 5 , K(2 , ( 1 , H(1, 0) , J(0, 4) , L(3 . **إذا أُزيح** HJLK  **بمقدار** 3 **وحدات إلى اليسار و** 5 **وحدات إلى الأسفل ، فما إحداثيات الرأس** ' K | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **ا** | | (-1, 0) | | | | | | | | | | | | | | | | | | | | | **ب** | | | | | | | | (-6, -3) | | | | | | | | | | | | **ج** | | | | | | | | | (-5, -10) | | | | | | | | | | **د** | | | | | | (5, 10) | | | | | | | | | | | |
| 24 | **أي قطعة مستقيمة يقع طرفاها على الدائرة تسمى :** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **ا** | | | | | **وتر** | | | | | | | | | | | | | | | | | **ب** | | | | | | | | | **نصف قطر** | | | | | | | | | | | | | **ج** | | | | | | | | **محيط الدائرة** | | | | | | | | | | | | | | | | | | | | | | **د** | | | | **مركز الدائرة** | |
| 25 | **إذا كان نصف قطر دائرة هو** r = 6 in **فإن المحيط** C **يساوي :ـ** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ا | | | | | 3π in | | | | | | | | | | | | | | | | | ب | | | | | | | | | 6π in | | | | | | | | | | | | | ج | | | | | | | | 9π in | | | | | | | | | | | | | | | | | | | | | | د | | | | 12π in | |
| 26 | **الدائرة التي معادلتها** (*x* – 3 ) 2 + *y* 2 = 16 **مركزها :-** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **ا** | | | | | ( 3 , 1) | | | | | | | | | | | | | | | | | **ب** | | | | | | | | | ( -3 , 0 ) | | | | | | | | | | | | | **ج** | | | | | | | | ( -3 ,1 ) | | | | | | | | | | | | | | | | | | | | | | **د** | | | | (3 , 0 ) | |
| 27 | **في الشكل المقابل** **,** ***مماسان للدائرة*** *G ,* ***قيمة*** *x* ***تساوي***: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **ا** | | | | | 12 | | | | | | | | | | | | | | | | | **ب** | | | | | | | | | 14 | | | | | | | | | | | | | **ج** | | | | | | | | 18 | | | | | | **د** | | | | | | | | 16 | | | | | | | | | | | | | |
| 28 | **في الشكل المقابل** *m∠* 5 يساوي : | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **ا** | | | | | 40º | | | | | | | | | | | | | | | | | **ب** | | | | | | | | | 110º | | | | | | | | | | | | | **ج** | | | | | | | | 50º | | | | | | **د** | | | | | | | | 130º | | | | | | | | | | | | | |
| 29 | **في الشكل المقابل** *m∠* 9 يساوي : | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **ا** | | | | | 60º | | | | | | | | | | | | | | | | | **ب** | | | | | | | | | 90º | | | | | | | | | | | | | **ج** | | | | | | | | 120º | | | | | | **د** | | | | | | | | 240º | | | | | | | | | | | | | |
| 30 | **القوس الذي قياسه أقل من** **يسمى :** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **ا** | | | | | **دائرة** | | | | | | | | | | | | | | | | | **ب** | | | | | | | | | **قوس أكبر** | | | | | | | | | | | | | **ج** | | | | | | | | **قوس أصغر** | | | | | | **د** | | | | | | | | **نصف دائرة .** | | | | | | | | | | | | | |
| 31 | في الشكل المجاور *x* تساوي:ـ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **ا** | | | | | 4 | | | | | | | | | | | | | | | | | **ب** | | | | | | | | | 2 | | | | | | | | | | | | | **ج** | | | | | | | | 3 | | | | | | **د** | | | | | | | | 6 | | | | | | | | | | | | | |
| 32 | في الشكل المجاور *x* تساوي:ـ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **ا** | | | | | 1 | | | | | | | | | | | | | | | | | **ب** | | | | | | | | | 9 | | | | | | | | | | | | | **ج** | | | | | | | | 8 | | | | | | **د** | | | | | | | | 3 | | | | | | | | | | | | | |
| 33 | **إذا تعامد مستقيم مع نصف قطر دائرة عند نهايته على الدائرة، فإن هذا المستقيم يكون:ـ** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **ا** | | | | | **قطرللدائرة** | | | | | | | | | | | | | | | | | **ب** | | | | | | | | | **مماس للدائرة** | | | | | | | | | | | | | **ج** | | | | | | | | **وتر للدائرة** | | | | | | **د** | | | | | | | | **مركز للدائرة** | | | | | | | | | | | | | |
| 34 | في الشكل المجاور *x* تساوي:ـ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **ا** | | | | | 30º | | | | | | | | | | | | | | | | | **ب** | | | | | | | | | 60º | | | | | | | | | | | | | **ج** | | | | | | | | 90º | | | | | | **د** | | | | | | | | 120º | | | | | | | | | | | | | |
| 35 | في الشكل المقابل NP  *لm* تساوي : | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **ا** | | | | | 120º | | | | | | | | | | | | | | | | | **ب** | | | | | | | | | 60º | | | | | | | | | | | | | **ج** | | | | | | | | 30º | | | | | | **د** | | | | | | | | 240º | | | | | | | | | | | | | |
| 36 | في الشكل المقابل : **إذا كان**  مماس للدائرة C فإن  قيمة | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **ا** | | | | | 30º | | | | | | | | | | | | | | | | | **ب** | | | | | | | | | 60º | | | | | | | | | | | | | **ج** | | | | | | | | 90º | | | | | | **د** | | | | | | | | 120º | | | | | | | | | | | | | |

السؤال الثاني: ــ اكمل الفراغ فيما يلي:

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 1~ | إذاكانت  على شكل طائرة ورقية فإن : | 2~ | | | | **في الشكل المقابل :إذا كان** \\  **فإن قيمة** |
|  | | | طرق عديدة للحل منها | | | |
| 3~ | **من الشكل المقابل معامل التمدد الذي يحول الشكل** **إلى الشكل** | | | 4~ | إذا كان نصف قطر ⊙ *W* هو 4 وحدات، ونصف قطر ⊙ *Z*يساوي7 وحدات و *XY* = 2  فإن | |
| معامل التمدد = | | | |  | | |
|  | | |

