

## نموذج اختبار 4 وفق الهيكل القسم الكتابي منهج ريفيل



### تم تحميل هذا الملف من موقع المناهج الإماراتية

موقع المناهج ← المناهج الإماراتية ← الصف الحادي عشر المتقدم ← رياضيات ← الفصل الثاني ← ملفات متنوعة ← الملف

تاريخ إضافة الملف على موقع المناهج: 12:10:12 2025-03-16

ملفات اكتب للمعلم اكتب للطالب | اختبارات الكترونية | اختبارات | حلول | عروض بوربوينت | أوراق عمل  
منهج انجليزي | ملخصات وتقارير | مذكرات وبنوك | الامتحان النهائي | للمدرس

المزيد من مادة  
رياضيات:

إعداد: أحمد عطا

### التواصل الاجتماعي بحسب الصف الحادي عشر المتقدم



صفحة المناهج  
الإماراتية على  
فيسبوك

الرياضيات

اللغة الانجليزية

اللغة العربية

التربية الاسلامية

المواد على تلغرام

### المزيد من الملفات بحسب الصف الحادي عشر المتقدم والمادة رياضيات في الفصل الثاني

نموذج اختبار 3 وفق الهيكل القسم الالكتروني منهج ريفيل

1

نموذج اختبار 2 وفق الهيكل القسم الالكتروني منهج ريفيل

2

نموذج اختبار 1 وفق الهيكل القسم الالكتروني منهج ريفيل

3

حل تجميعية 1 القسم الالكتروني وفق الهيكل الوزاري منهج ريفيل

4

حل بالخطوات أسئلة امتحان نهائي سابق القسم الالكتروني المسار النخبة

5

**Reveal  
TERM 2**

**4**

**هيكل الاختبار**

**الجزء الكتابي**

**11 Advanced**



**Mr. Ahmed Ata**  
The Featured Program

**MATH 2024-2025**

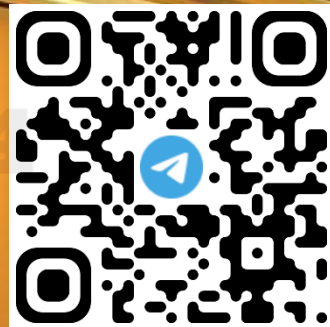
**MR – AHMED ATA**



**0566010255 - 0502070147**



**<https://t.me/ahmedatamath>**



**الصفحة الرسمية**

1

Verify that each equation is an identity.

$$\sec \theta - \tan \theta = \frac{1 - \sin \theta}{\cos \theta}$$

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2

Verify that each equation is an identity.

$$\frac{1 + \tan \theta}{\sin \theta + \cos \theta} = \sec \theta$$

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3

Verify that each equation is an identity.

$$\sec \theta \csc \theta = \tan \theta + \cot \theta$$

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4

Verify that each equation is an identity.

$$\sin \theta + \cos \theta = \frac{2 \sin^2 \theta - 1}{\sin \theta - \cos \theta}$$

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Verify that each equation is an identity.

$$(\sin \theta + \cos \theta)^2 = \frac{2 + \sec \theta \csc \theta}{\sec \theta \csc \theta}$$

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6

Verify that each equation is an identity.

$$\frac{\cos \theta}{1 - \sin \theta} = \frac{1 + \sin \theta}{\cos \theta}$$

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7

Verify that each equation is an identity.

$$\csc \theta - 1 = \frac{\cot^2 \theta}{\csc \theta + 1}$$

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8

Verify that each equation is an identity.

$$\cos \theta \cot \theta = \csc \theta - \sin \theta$$

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9

Verify that each equation is an identity.

$$\sin \theta \cos \theta \tan \theta + \cos^2 \theta = 1$$

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10

Verify that each equation is an identity.

$$(\csc \theta - \cot \theta)^2 = \frac{1 - \cos \theta}{1 + \cos \theta}$$

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11

Verify that each equation is an identity.

$$\csc^2 \theta = \cot^2 \theta + \sin \theta \csc \theta$$

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12

Verify that each equation is an identity.

$$\frac{\sec \theta - \csc \theta}{\csc \theta \sec \theta} = \sin \theta - \cos \theta$$

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13

Verify that each equation is an identity.

$$\sin^2 \theta + \cos^2 \theta = \sec^2 \theta - \tan^2 \theta$$

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14

Verify that each equation is an identity.

$$\sec \theta - \cos \theta = \tan \theta \sin \theta$$

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15

Solve each equation.

$$2 \sin^2 \theta = 3 \sin \theta + 2$$

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Solve each equation.

$$2 \cos^2 \theta + 3 \sin \theta = 3$$

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17

Solve each equation.

$$\sin^2 \theta + \cos 2\theta = \cos \theta$$

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18

Solve each equation.

$$2 \cos^2 \theta = -\cos \theta$$

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19

**SENSE-MAKING** Due to ocean tides, the depth  $y$  in meters of the River Thames in London varies as a sine function of  $x$ , the hour of the day. On a certain day that function was  $y = 3 \sin \left[ \frac{\pi}{6}(x - 4) \right] + 8$ , where  $x = 0, 1, 2, \dots, 24$  corresponds to 12:00 midnight, 1:00 A.M., 2:00 A.M., ..., 12:00 midnight the next night.

- What is the maximum depth of the River Thames on that day?
- At what times does the maximum depth occur?

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20

Solve each equation if  $\theta$  is measured in radians.

$$(\cos \theta)(\sin 2\theta) - 2 \sin \theta + 2 = 0$$

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21

Solve each equation if  $\theta$  is measured in radians.

$$2 \sin^2 \theta + (\sqrt{2} - 1) \sin \theta = \frac{\sqrt{2}}{2}$$

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22

Solve each equation if  $\theta$  is measured in degrees.

$$\sin 2\theta + \frac{\sqrt{3}}{2} = \sqrt{3} \sin \theta + \cos \theta$$

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23

Solve each equation if  $\theta$  is measured in degrees.

$$1 - \sin^2 \theta - \cos \theta = \frac{3}{4}$$

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24

Solve each equation if  $\theta$  is measured in degrees.

$$2 \sin \theta = \sin 2\theta$$

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Solve each equation if  $\theta$  is measured in degrees.

$$\cos \theta \tan \theta - 2 \cos^2 \theta = -1$$

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