



وزارة التربية والتعليم و التعليم الفني  
الادارة المركزية للتعليم العام  
ادارة تنمية مادة الرياضيات

# برعاية معالي وزير التربية والتعليم و التعليم العام السيد الأسناذ / محمد عبد اللطيف

ونوجيهات رئيس الإدارة المركزية للتعليم العام

**د / هالة عبد السلام خفاجى**

إشراف علمي  
مسنشار الرياضيات

**أ / منال عزقول**

**إدعاءات و تقييمات لمنهج الرياضيات**

للصف الأول الثانوي **لفات**  
الفصل الدراسي الثانى  
للعام الدراسي 2026 / 2025

**الاسبوع الثامن**

إعداد

**أ / عصام الجزار**

**أ / إيهاب فنكى**

ترجمة

**أ / محمد على**

مراجعة الترجمة

**أ / عمرو فاروق**

**أ / عثمان مصطفى عثمان**



(8) الرياضيات لغات      للصف الأول الثانوي      الأداء الصفی      الأسبوع الثامن (8)

**First Algebra:**

- 1) Find the value of  $\begin{vmatrix} 2 & 5 & 1 \\ 0 & 3 & 7 \\ 0 & 0 & 4 \end{vmatrix}$
- 2) Find the area of the triangle ABC where: A(5 , 1) , B(8 , 7) and C(2 , 3)
- 3) Prove by using determinants that the following points are collinear  
A(0 , -1) , B(2 , 3) and C(-1 , -3).
- 4) Solve the following system of equations by using determinants:  
 $2x + y = 4$  ,  $x - 3y = -5$

**Second Trigonometry:**

- 5) A person observed a point on the Earth's surface from the top of a mountain 2.56 km high. He found that its angle of depression was  $63^\circ$ . Find the distance to the nearest meter between the point and the observer.
- 6) From the top of a rock 180 meters above sea level, the angle of depression of a boat 300 meters from the base of the rock was measured. What is the measure of the angle of depression?

**Third Geometry:**

- 7) Find the general equation of the straight line passes by the point (2 , -3) and perpendicular to the vector  $\vec{c} = (-1 , 2)$ .
- 8) Find the general equation of the straight which cuts from the positive parts of the two axes  $x$  ,  $y$  two parts of length 2 , 3 respectively.
- 9) Find the two intercepted parts from the two axes by the straight line of equation  
 $5x - 3y = 15$ .
- 10) Find the vector equation of the straight line passes by the point (3 , 5) and parallel to the  $x$  axis.



**(8) الرياضيات لغات      للصف الأول الثانوي      الأداء المنزلي      الأسبوع الثامن (8)**

**First Algebra:**

1) Find the value of  $\begin{vmatrix} 4 & 0 & 0 \\ 7 & 2 & 0 \\ 5 & 2 & 1 \end{vmatrix}$ .

2) Find the area of the triangle ABC where A(1 , 2) , B(4 , 6) and C(7 , 2)

3) Prove by using determinants that the following points are collinear

A(0 , -3) , B(1 , -1) and C(-1 , -5).

4) Solve the following system of equations by using determinants:

$$x - y = 2 , 2x - 3y = 5$$

**Second Trigonometry:**

5) A person observed a boat on the sea from the top of a tower 100m high. He found that its angle of depression was  $30^\circ$ . Find the distance to the nearest meter between the boat and the observer.

6) From the top of a building 50 meters high , the angle of depression of a car 120 meters from the base of the building was measured. What is the measure of the angle of depression?

**Third Geometry:**

7) Find the general equation of the straight line passes by the point (3 , 4) and perpendicular to the vector  $\vec{c} = (5 , 2)$ .

8) Find the general equation of the straight which cuts from the positive parts of the two axes x , y two parts 4 , 5 Respectively.

9) Find the two intercepted parts from the two axes by the straight line of equation  $2x + 7y = 14$ .

10) Find the vector equation of the straight line passes by the point (-2 , 1) and parallel to the y axis.