وزارة التربية والتعليم و التعليم الفنى
الادارة المركزية للتعليم العام
إدارة تنمية مادة الرياضيات

برعاية معالي وزير التربية والتعليم و التعليم العام

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أداءات وتقييمات لمنهج الرياضيات

للصف الأول الثانوي لغات

الفصل الدراسى الثانى

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الأسبوع العاشر

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(10) الرياضيات لغات للصف الأول الثانوي الأداء الصفى الأسبوع العاشر (10)

First: Algebra:

1) If A = $\begin{pmatrix} 3 & 1 \\ 5 & -2 \end{pmatrix}$, B = $\begin{pmatrix} 4 & 7 \\ 8 & 9 \end{pmatrix}$ then find the value of $A_{21} + B_{12}$.

2) If the matrix $\begin{pmatrix} 3 & -1 \\ x-4 & 5 \end{pmatrix}$ is a symmetric matrix, then find the value of x.

3) Find the multiplicative inverse for the matrix $\begin{pmatrix} 4 & 6 \\ 2 & 2 \end{pmatrix}$.

Second: Trignometry:

4) Find the surface area of the circular sector whose diameter is 20 cm and its angle of measure is 120^{o}.

5) Find the surface area of a circular sector with an arc length of 16 cm and a radius of 9 cm.

6) If the surface area of a circular sector is 110 cm^2 and the measure of its angle is 2.2^{rad}, find the length of its radius.

7) A circular sector has an arc length of 7 cm and a perimeter of 25 cm. Find its surface area.

Third: Geometry:

8) Find the measure of the angle between the two lines whose slopes are $\mathbf{2}, \frac{-1}{2}$.

9) Find the measure of the acute angle between the two lines:

$\vec{r} = (0\,,1) + k(1\,,1)$, $2x - y - 3 = 0$.

10) Find the measure of the acute angle between the two lines.

$\sqrt{3}\,x - y = 4$, $y = 3$.

(10) الرياضيات لغات (10) للصف الأول الثانوي الأداء المنزلى الأسبوع العاشر

First: Algebra:

1) If $\begin{pmatrix} 3 & 5 \\ x & 3 \end{pmatrix} = \begin{pmatrix} 3 & 5 \\ 7 & y+1 \end{pmatrix}$ then find the value of x , y.

2) If $\begin{pmatrix} 6 & 2 \\ 5 & -2 \end{pmatrix}$ + B = O , then find the matrix B.

3) Find the multiplicative inverse for the matrix $\begin{pmatrix} 3 & 5 \\ 1 & 2 \end{pmatrix}$.

Second: Trignometry:

4) Find the surface area of the circular sector whose diameter is 30 cm and its angle of measure is 150^{o}.

5) Find the surface area of a circular sector with an arc length of 8 cm and a radius of 10 cm.

6) If the surface area of a circular sector is 90 cm^2 and the measure of its angle is 1.3^{rad}, find the length of its radius.

7) A circular sector has an arc length of 9 cm and a perimeter of 31 cm. Find its surface area.

Third: Geometry:

8) Find the measure of the angle between the two lines whose slopes are 3 , $\frac{-1}{3}$.

9) Find the measure of the acute angle between the two lines:

$$\vec{r} = (1\,,2) + k(3\,,-1)\ ,\ 2x - y + 1 = 0.$$

10) Find the measure of the acute angle between the two lines:

$$x - \sqrt{3}\,y = 4\ ,\ y = 1.$$

(10) الرياضيات لغات للصف الأول الثانوي التقييمات الأسبوعية الأسبوع العاشر (10)

First Group:

1) Form the determinant of the coefficients of the equations:

`x + 2 y = 1 , 3 y – z = 1 , 2 x + z = 1.

2) Find the values of x which makes the matrix $\begin{pmatrix} x & 8 \\ 4 & 2 \end{pmatrix}$ has no multiplicative inverse.

3) Find the surface area of the circular sector whose diameter is 45 cm and its angle of measure is 90°.

4) Find the surface area of a circular sector with an arc length of 4 cm and a radius of 6 cm.

5) Find the measure of the acute angle between the two lines:

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

Second: Group:

1) Form the determinant of the coefficients of the equations:

4 x - y = 4 , y + 5 z = - 5 , 3 x + z = 2.

2) Find the values of x which makes the matrix $\begin{pmatrix} x & 2 \\ 6 & 3 \end{pmatrix}$ has no multiplicative inverse.

3) Find the surface area of the circular sector whose diameter is 15 cm and its angle of measure is 60°.

4) Find the surface area of a circular sector with an arc length of 2 cm and a radius of 4 cm.

5) Find the measure of the acute angle between the two lines:

$x + y = 6$, $y = 4$.

Third: Group:

1) Form the determinant of the coefficients of the equations:

$2x + 3y = 2$, $y - 4z = 4$, $x + z = 0$.

2) Find the values of x which makes the matrix $\begin{pmatrix} 4 & 8 \\ 2 & x \end{pmatrix}$ has no multiplicative inverse.

3) Find the surface area of the circular sector whose diameter is 20 cm and its angle of measure is 45^{o}.

4) Find the surface area of a circular sector with an arc length of 3 cm and a radius of 12 cm.

5) Find the measure of the acute angle between the two lines:

$x - y = 12$, $y = 1$.