

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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وتوجيهات رئيس الإدارة المركزية للتعليم العام

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مستشار الرياضيات

أ/ منال عزقول

أداءات وتقييمات لمنهج الرياضيات

للصف الأول الثانوي لغات

الفصل الدراسى الأول

للعام الدراسي 2026 / 2027

الأسبوع الأول

إعداد

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ترجمة

أ/ محمد على

مراجعة الترجمة

أ/ شريف البرهامى أ/ عمرو فاروق

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الصف الأول الثانوي – الرياضيات لغات – الأداء الصفى – الأسبوع الأول

1- Find each of the following in its simplest form:

(a) i^{101} (b) i^{-32} (c) i^{4n+17} (d) i^{2026}

2- Find in $\mathbb{C}$ the solution set of the equation: ① $4x^2 + 36 = 0$

② $\frac{1}{4}x^2 + 64 = 0$

3- Find the values of x, y: (3x +1) + 4yi = 7 – 20 i

4- In the opposite figure:

Which of the following directed angles is in its standard position? Explain your answer.

(a) $(\overrightarrow{OA}, \overrightarrow{OD})$

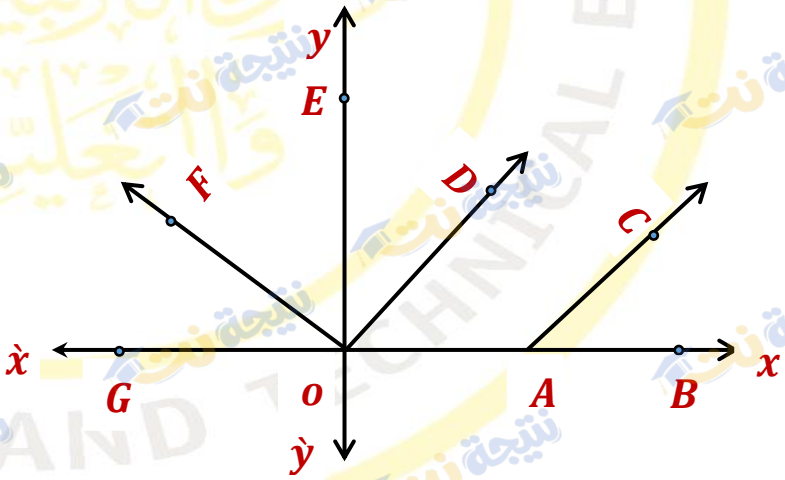
(b) $(\overrightarrow{OF}, \overrightarrow{OD})$

(c) $(\overrightarrow{AB}, \overrightarrow{AC})$

(d) $(\overrightarrow{OE}, \overrightarrow{OD})$

(e) $(\overrightarrow{OD}, \overrightarrow{OF})$

(f) $(\overrightarrow{OB}, \overrightarrow{OF})$



5- Write the following angles using ordered pairs:

(a) $(\angle AOB)$ (b) $(\angle ABC)$

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6- If $the\ polygon\ ABCD \sim\ the\ polygon\ XYZL$

(a) Write the corresponding sides

(b) Write the corresponding angles

7- $If\ \ the\ polygon\ ABCD \sim\ the\ polygon\ XYZL\ ,\ AB = 6\ cm.\ ,$

$BC = 8\ cm.\ \ XY = k + 2\ ,\ YZ = 12\ \ cm.\ find\ the\ volue\ of\ \ k$

8- Two similar polygons, the ratio between the lengths of two corresponding sides is 2: 3, the perimeter of the bigger equals 35 cm., then the perimeter of the smaller polygon.

9- Two similar rectangles, the dimensions of the first are 8 cm., 12 cm. and the perimeter of the second rectangle = 60 cm. find the lengths of two dimensions of the second rectangle

10- $If\ \ the\ polygon\ ABCD \sim\ the\ polygon\ XYZL\ , AB = 4\ cm.\ ,$
$BC = 10\ cm.\ \ XY = k\ \ , YZ = 2\,k + 3\ \ \ cm.\ find\ the\ value\ of\ \ k$

الصف الأول الثانوي – الرياضيات لغات – الأداء المنزلي – الأسبوع الأول

1- Find each of the following in its simplest form:

(b) i^{2008} (b) i^{-21} (c) i^{4n+19} (d) i^{37}

2- Find in $\mathbb{C}$ the solution set of the equation: ① $2x^2 + 72 = 0$

② $\frac{2}{5}y^2 + 10 = 0$

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3- Find the values of x, y: (3x +2) + 4yi = 5 – 16 i

4- In the opposite figure:

Which of the following directed angles is in its standard position? Explain your answer.

(a) $(\overrightarrow{OA}\ ,\ \overrightarrow{OD})$

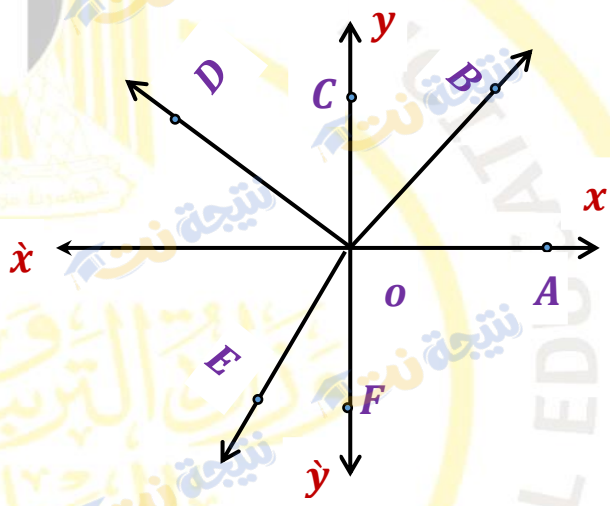
(b) $(\overrightarrow{OF}\ ,\ \overrightarrow{OE})$

(c) $(\overrightarrow{OE}\ ,\ \overrightarrow{OF})$

(d) $(\overrightarrow{OA}\ ,\ \overrightarrow{OE})$

(e) $(\overrightarrow{OC}\ ,\ \overrightarrow{OD})$

(f) $(\overrightarrow{OB}\ ,\ \overrightarrow{OD})$



5- Write the following angles using ordered pairs:

(a) $(\angle XYL)$ (b) $(\angle ZED)$

6- If $the\ polygon\ LYNZ \sim\ the\ polygon\ ABCD$

(a) Write the corresponding sides

(b) Write the corresponding angles

7- $If\ \ the\ polygon\ ABCD \sim\ the\ polygon\ XYZL$

$, AB =\ \ 54\ cm.\ , BC = 30\ cm.\ \ XY = (2m - 1)\ \ ,$

$YZ = (m + 1)\ \ cm.\ find\ the\ volue\ of\ \ m$

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8- Two similar polygons, the ratio between the lengths of two corresponding sides is 4 : 5, the perimeter of the bigger equals 35 cm., then the perimeter of the smaller polygon.

9- Two similar rectangles, the dimensions of the first are 6 cm., 10 cm. and the perimeter of the second rectangle = 40 cm. find the lengths of two dimensions of the second rectangle

10- $If\ \ the\ polygon\ ABCD \sim\ the\ polygon\ XYZL\ , if\ the\ ratio\ betwee$ $their\ perimeters\ equals\ 3:1$ recpectively $XY = k\ cm$, $AB = (2\ k + 3)\ \ cm.\ find\ the\ value\ of\ \ k$

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الصف الأول الثانوي – الرياضيات لغات – التقييمات الإسبوعية – الأسبوع الأول

The First Group

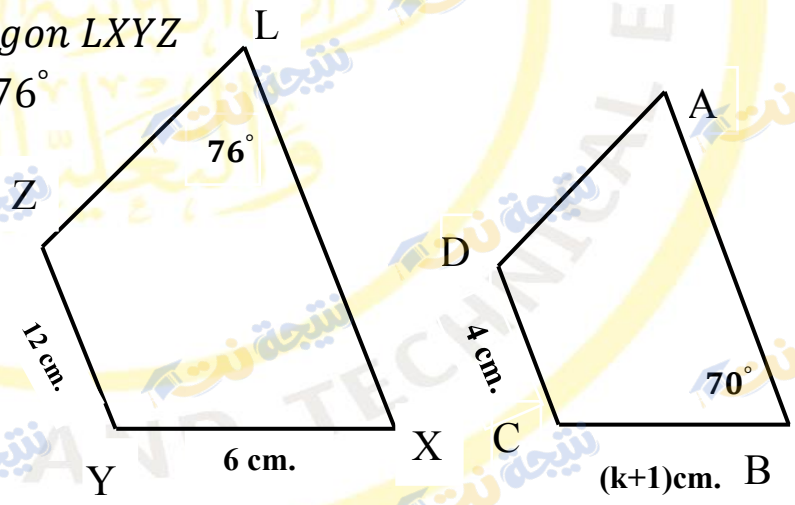
1- Find in $\mathbb{C}$ the solution set of the equation: $3x^2 + 27 = 0$

2- Find the values of x, y: (5 x + 1) + 2 y i = 11 – 20 i

3- Write the following angles using ordered pairs: $(\angle XYZ)$

4- $If\ \Delta ABC \sim \Delta DEX\ , the\ perimeter\ of\ \Delta ABC = 30\ cm.$,
$DE = 4\ cm.\ EX = 5\ cm.\ XD = 6\ cm.$
$find\ the\ length\ of\ the\ sides\ of\ \Delta ABC$

5- In the opposite figure:
$the\ polygon\ ABCD \sim the\ polygon\ LXYZ$
$m(\angle B) = 70^\circ\ , m(\angle L) = 76^\circ$
$XY = 6\ cm.\ , CD = 4\ cm.$
$BC = k + 1\ ,\ YZ = 12\ cm.$
Find (a) $m(\angle A)\ ,\ m(\angle X)$
(b) the value of k



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The Second Group

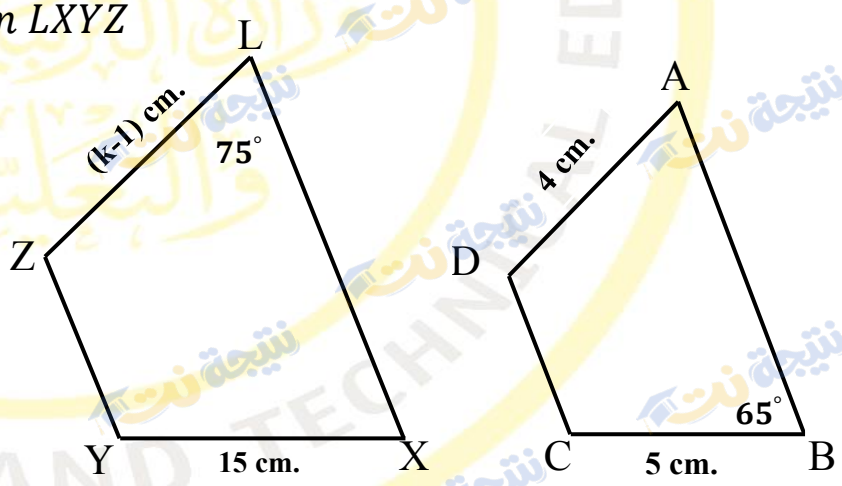
1- Find in $\mathbb{C}$ the solution set of the equation: $5x^2 + 100 = 0$

2- Find the values of x, y: (3 x + 1) + 8 y i = 23 – 16 i

3- Write the following angles using ordered pairs: $(\angle KLM)$

4- $If\ \Delta\, ABC \sim \Delta\, DEX\ , the\ perimeter\ of\ \Delta\, DEX\ = 60\ cm.\ ,$
$AB\ = 14\ cm.\ BC = CA\ = 8\ cm.$
$Find\ the\ length\ of\ the\ sides\ of\ \Delta\, DEX$

5- In the opposite figure:
$the\ polygon\ ABCD \sim\ the\ polygon\ LXYZ$
$m\,(\angle B) = 65^\circ\ , m\,(\angle L) = 75^\circ$
$AD = 4\ cm.\ , CB = 5\ cm.$
$XY = 15\ ,\ LZ = k - 1\ cm.$
Find (a) $m\,(\angle A)\ ,\ m\,(\angle X)$
(b) the value of k



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The Third Group

1- Find in $\mathbb{C}$ the solution set of the equation: $2x^2 + 50 = 0$

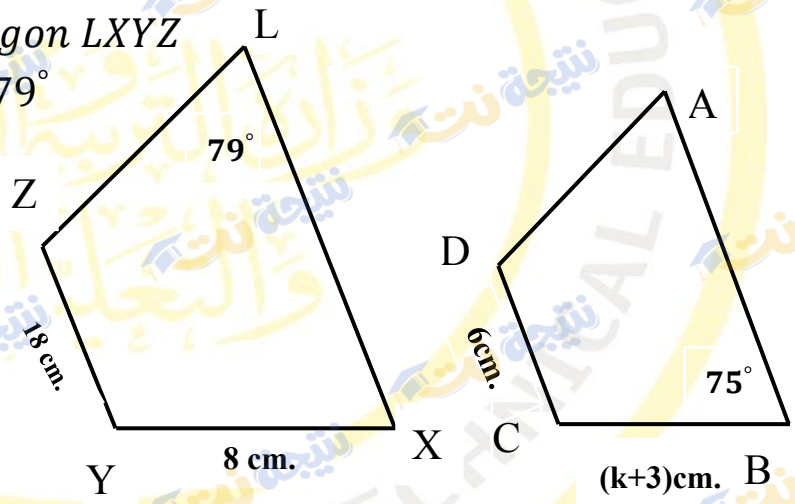
2- Find the values of x, y: $(2x + 1) + 7y\,i = 13 - 21\,i$

3- Write the following angles using ordered pairs: $(\angle CDX)$

4- $If\ \Delta ABC \sim \Delta DEX$, $the\ perimeter\ of\ \Delta ABC = 60\ cm.$,
$DE = 4\ cm.\ EX = 5\ cm.\ XD = 6\ cm.$
$find\ the\ length\ of\ the\ sides\ of\ \Delta ABC$

5- In the opposite figure:
$the\ polygon\ ABCD \sim the\ polygon\ LXYZ$
$m(\angle B) = 75^\circ$, $m(\angle L) = 79^\circ$

$XY = 8\ cm.$, $CD = 6\ cm.$
$BC = k + 3$, $YZ = 18\ cm.$
Find (a) $m(\angle A)$, $m(\angle X)$
(b) the value of k



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