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

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

وتوجيهات رئيس الإدارة المركزية للتعليم العام

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إشراف علمي

مستشار الرياضيات

أ/ منال عزقول

أداءات وتقييمات لمنهج الرياضيات

للصف الأول الثانوي **لغات**

الفصل الدراسى الأول

للعام الدراسي 2025 / 2026

الأسبوع الأول

إعداد

أ/ إيهاب فتحى **أ/ عصام الجزار**

ترجمة

أ/ محمد على

مراجعة الترجمة

أ/ شريف البرهامى

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 $\mathbb{R}$ the solution set of the equation: $x^2 + 16 = 0$

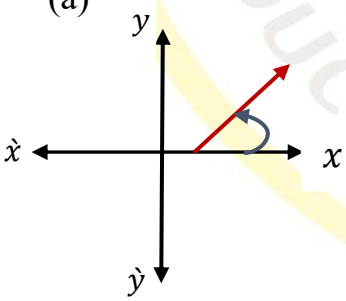
3- Find in $\mathbb{C}$ the solution set of the equation: ① $4x^2 + 36 = 0$

② $\frac{1}{4}x^2 + 64 = 0$

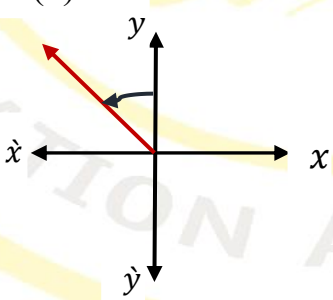
4- Find the values of x, y: (3x +1) + 4yi = 7 – 20 i

5- Which of the following angles is in the standard position and explain your answer?

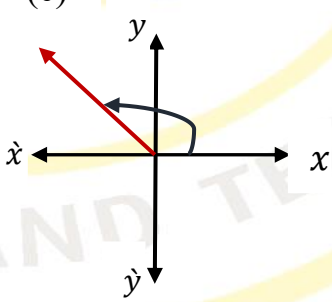
(a)



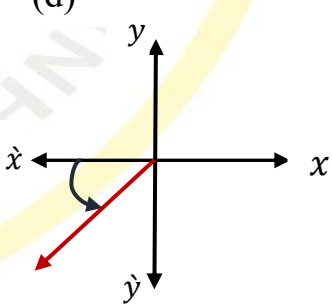
(b)



(c)



(d)



6- In the opposite figure:

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

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

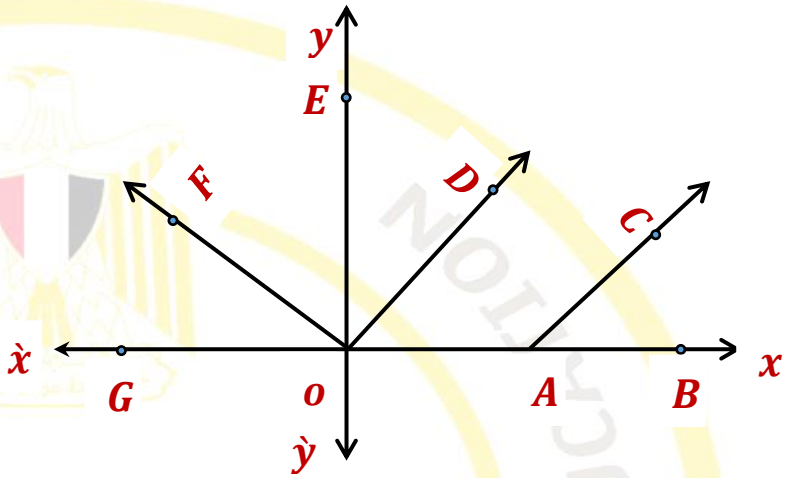
(b) $(\overrightarrow{OF}\ ,\ \overrightarrow{OD})$

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

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

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

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



7- Write the following angles using ordered pairs:

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

8- Draw a directed angle in standard position with measure 70°

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

(a) Write the corresponding sides

(b) Write the corresponding angles

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

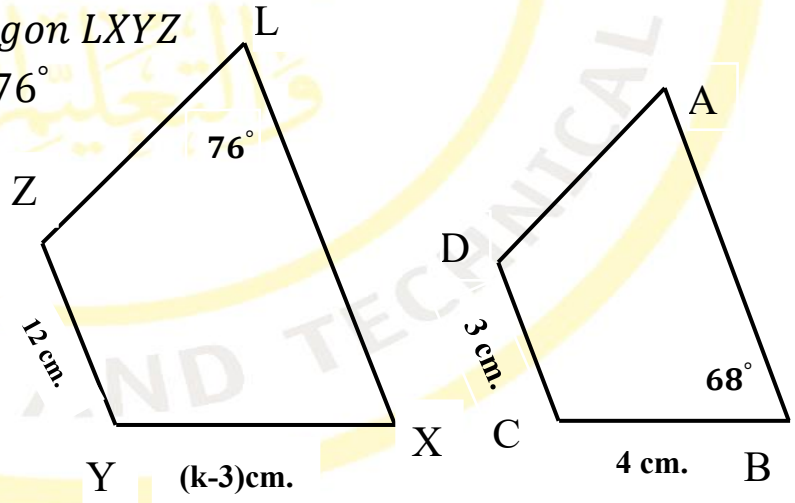
$BC = 8\ cm.\ \ XY = k + 2\ ,\ YZ = 12\ \ cm.\ find\ the\ volue\ of\ \ k$

11- $If\ \Delta ABC \sim \Delta DEX\ , the\ perimeter\ of\ \Delta ABC = 24\ cm.\ ,$
$DE = 20\ cm.\ EX = 15cm.\ XD = 13\ cm.$
$find\ the\ length\ of\ the\ sides\ of\ \Delta ABC$

12- 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.

13- 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

14- In the opposite figure:
$the\ polygon\ ABCD \sim\ the\ polygon\ LXYZ$
$m(\angle B) = 68^\circ\ , m(\angle L) = 76^\circ$
$BC = 4\ cm.\ , CD = 3\ cm.$
$XY = k - 3\ ,\ YZ = 12\ cm.$
Find (a) $m(\angle A)\ ,\ m(\angle X)$
(b) the value of K



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

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 $\mathbb{R}$ the solution set of the equation: $5x^2 + 100 = 0$

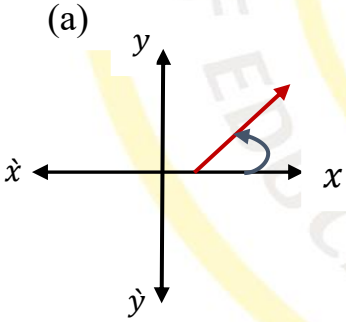
3- Find in $\mathbb{C}$ the solution set of the equation: ① $2x^2 + 72 = 0$

② $\frac{2}{5}y^2 + 10 = 0$

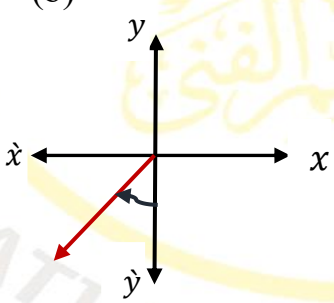
4- Find the values of x, y: (3x +2) + 4yi = 5 – 16 i

5- Which of the following angles is in the standard position and explain your answer?

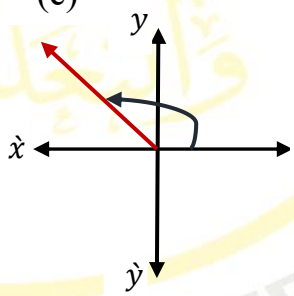
(a)



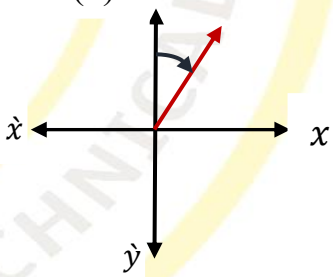
(b)



(c)



(d)



6- In the opposite figure:

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

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

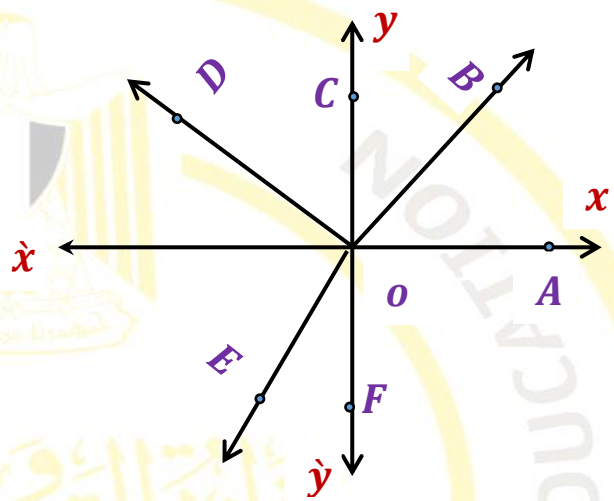
(b) $(\overrightarrow{OF}\ ,\ \overrightarrow{OE})$

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

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

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

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



7- Write the following angles using ordered pairs:

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

8- Draw a directed angle in standard position with measure 120°

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

(a) Write the corresponding sides

(b) Write the corresponding angles

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

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

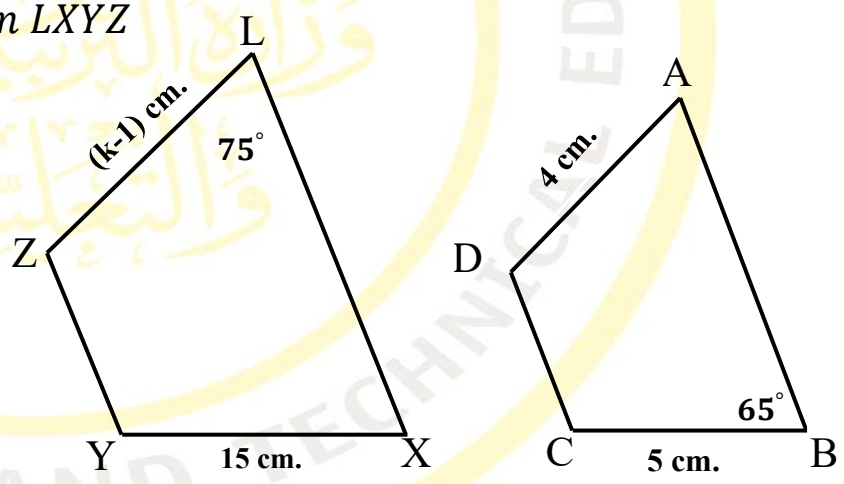
$YZ = (m + 1)\ \ cm.\ find\ the\ volue\ of\ \ m$

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

12- 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.

13- 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

14- In the opposite figure:
$the\ polygon\ ABCD \sim\ the\ polygon\ LXYZ$
$m(\angle B) = 68^\circ\ , m(\angle L) = 75^\circ$
$BC = 4\ cm.\ , CD = 3\ cm.$
$XY = k - 3\ ,\ YZ = 12\ cm.$
Find (a) $m(\angle A)\ ,\ m(\angle X)$
(b) the value of k



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