



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

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

ونوجيهات رئيس الإدارة المركزية للتعليم العام

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مسنشار الرياضيات

**أ / منال عزقول**

**أداءات و تقييمات لمنهج الرياضيات**

للفصل الأول الثانوي **لفات**

الفصل الدراسي الأول

للعام الدراسي 2026 / 2027

**الأسبوع الأول**

إعداد

**أ / إيهاب فندي**      **أ / عصام الجزار**

ترجمة

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مراجعة الترجمة

**أ / شريف البرهامي**      **أ / عمرو فاروق**



الصف الأول الثانوي – الرياضيات لغات – الأداء الصفی – 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  $4x^2 + 36 = 0$

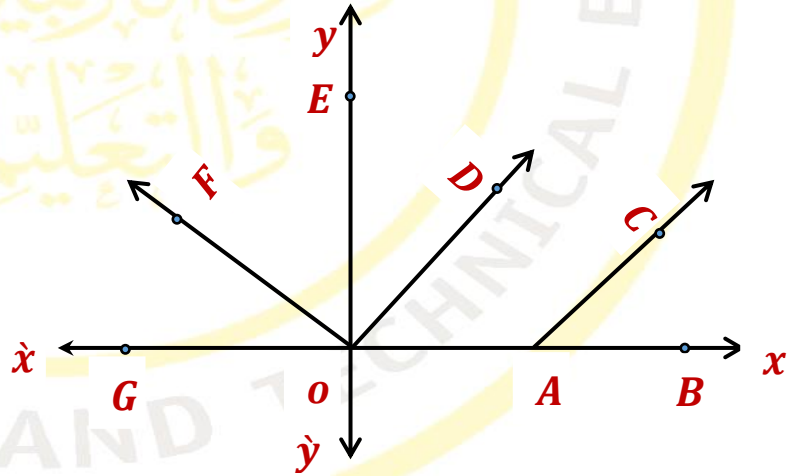
②  $\frac{1}{4}x^2 + 64 = 0$

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

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)  $(\angle ABC)$



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  $XYZL$ ,  $AB = 6 \text{ cm.}$ ,

$BC = 8 \text{ cm.}$   $XY = k + 2$ ,  $YZ = 12 \text{ cm.}$  find the value 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  $XYZL$ ,  $AB = 4 \text{ cm.}$ ,  
 $BC = 10 \text{ cm.}$   $XY = k$ ,  $YZ = 2k + 3 \text{ cm.}$  find the value of  $k$

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

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

- (a)  $i^{2008}$
- (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  $\frac{2}{5}y^2 + 10 = 0$

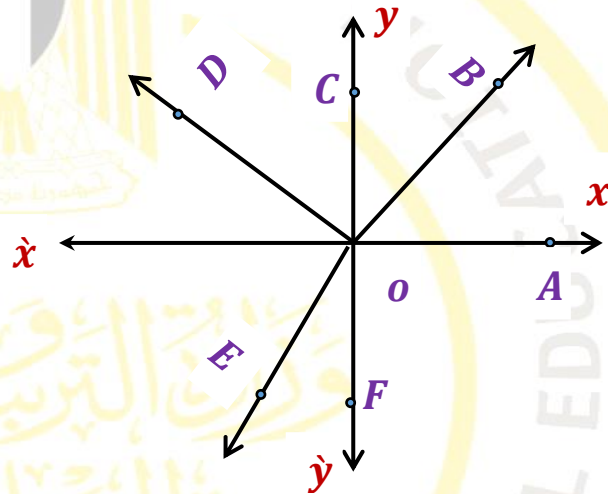


3- Find the values of  $x, y$ :  $(3x + 2) + 4yi = 5 - 16i$

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  $XYZL$

,  $AB = 54 \text{ cm.}$  ,  $BC = 30 \text{ cm.}$   $XY = (2m - 1)$  ,  
 $YZ = (m + 1) \text{ cm.}$  find the value of  $m$



- 8- Two similar polygons, the ratio between the lengths of two corresponding sides is  $4 : 5$ , the perimeter of the bigger equals  $35 \text{ cm.}$ , then the perimeter of the smaller polygon.
- 9- Two similar rectangles, the dimensions of the first are  $6 \text{ cm.}$ ,  $10 \text{ cm.}$  and the perimeter of the second rectangle  $= 40 \text{ cm.}$  find the lengths of two dimensions of the second rectangle
- 10- *If the polygon  $ABCD \sim$  the polygon  $XYZL$  ,if the ratio between their perimeters equals  $3 : 1$  respectively  $XY = k \text{ cm}$  ,  $AB = (2k + 3) \text{ cm.}$  find the value of  $k$*

الصف الأول الثانوي – الرياضيات لغات – التقييمات الإيسوعية – 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  $x, y$ :  $(5x + 1) + 2yi = 11 - 20i$

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

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

5- In the opposite figure:

the polygon  $ABCD \sim$  the polygon  $LXYZ$

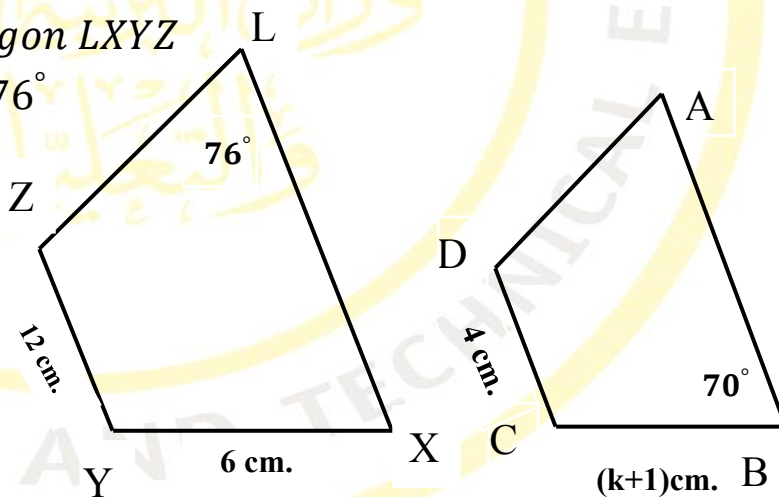
$m(\angle B) = 70^\circ$  ,  $m(\angle L) = 76^\circ$

$XY = 6$  cm. ,  $CD = 4$  cm.

$BC = k + 1$  ,  $YZ = 12$  cm.

Find (a)  $m(\angle A)$  ,  $m(\angle X)$

(b) the value of  $k$





### The Second Group

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

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

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

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

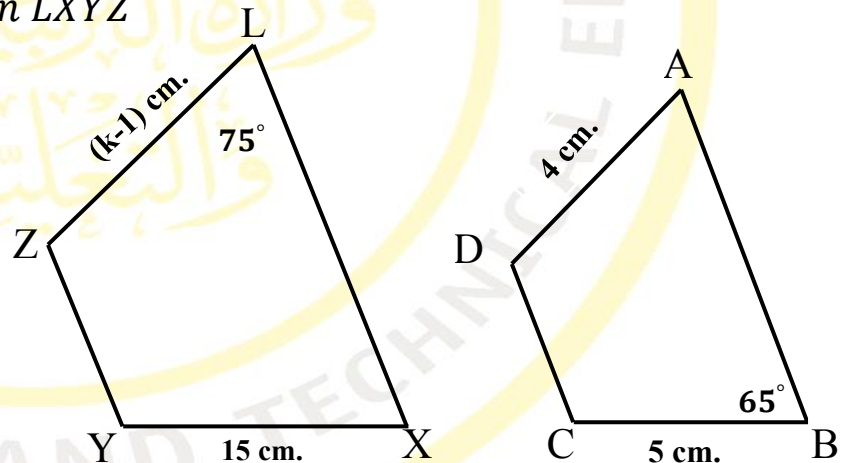
5- In the opposite figure:  
the polygon  $ABCD \sim$  the polygon  $LXYZ$   
 $m(\angle B) = 65^\circ$ ,  $m(\angle L) = 75^\circ$

$AD = 4$  cm. ,  $CB = 5$  cm.

$XY = 15$  ,  $LZ = k - 1$  cm.

Find (a)  $m(\angle A)$  ,  $m(\angle X)$

(b) the value of  $k$





### The Third Group

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

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

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

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

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  $k$

