

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

## د/ هالة عبد السلام خفاجى

إشراف علمي

مستشار الرياضيات

## أ/ منال عزقول

# أداءات وتقييمات لمنهج الرياضيات

للصف الأول الثانوي لغات

الفصل الدراسى الأول

للعام الدراسي 2026 / 2027

## الأسبوع الثانى

لجنة الإعداد

أ/ إيهاب فتحى  أ/ عصام الجزار

ترجمة

أ/ محمد على

مراجعة

أ/ شريف البرهامى  أ/ عمرو فاروق

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الصف الأول الثانوي – الرياضيات لغات - الأداء الصفي -الأسبوع الثاني

1) Find in simplest form the result of each of the following:

(a) $(2+5i)+(4-i)$

(b) $(\sqrt{16}-3i)-(-3+\sqrt{-36})$

(c) $(2-7i)(2-7i)$

2) Find the values of x and y that satisfy the equation:

$$\frac{(4-i)(4+i)}{2-i} = x + yi$$

3) Find it in its simplest form

(a) $\frac{3-6i}{3i}$ (b) $\frac{50}{4-3i}$ (c) $\frac{2-i}{3-i}$

4) Find the expression in its simplest form $(1-i)^{10}+32i^{100}$

5) Determine the quadrant in which each of the angles whose measures lie lies as follows

(a) 240° (b) 124° (c) 267° (d) 50°

6) Find two angles, one with a positive measure and the other with a negative measure, the terminal side for each of the following angles:

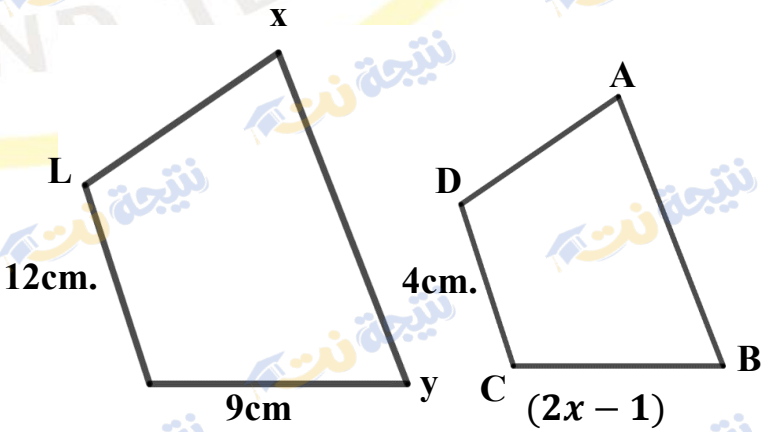
(a) 110° (b) -65° (c) -230° (d) 210°

7) In the oppsite figure:

Polygon ABCD ~ Polygon XYZL

First: Find the numerical value of x

Second: Find factor of Similarity





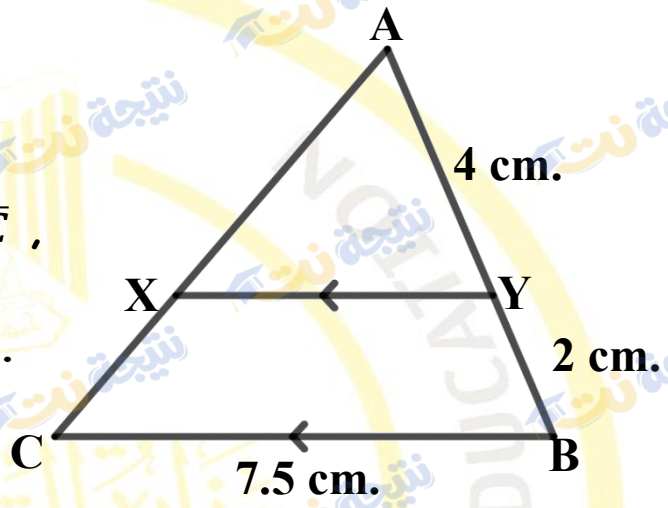

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8) A rectangle with dimensions of 10 cm and 6 cm. Find the dimension of another rectangle similar to it if:

First: factor of Similarity = 3
Second: factor of Similarity = 0.4

9) In the oppsite figure:

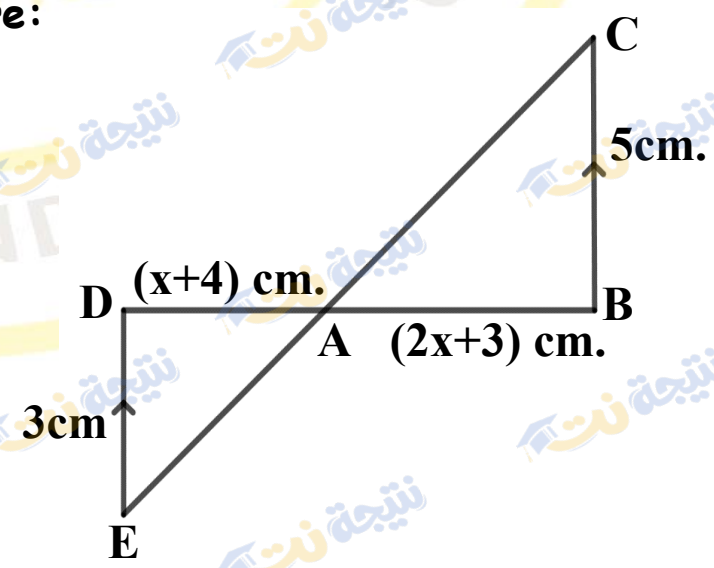
ABC is a triangle, Y ∈ $\overline{AB}$ , X ∈ $\overline{AC}$ ,
where $\overline{XY}$ // $\overline{BC}$,
AY = 4cm. YB = 2cm. BC = 7.5 cm.




First: Prove that ΔABC ~ ΔAYX
Second: Find the length of $\overline{XY}$

10) From the data in the opposite figure:

First: Prove that: ΔABC ~ ΔADE
Second: Find the value of x






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الصف الأول الثانوي – الرياضيات لغات - الأداء المنزلى -الأسبوع الثاني

1) Find in simplest form the result of each of the following:

(d) $(5-7i)+(4+\sqrt{-4})$

(e) $(7-6i)-(\sqrt{4}+5i)$

(f) $(1-2i)(2-5i)$

2) Find the values of x and y that satisfy the equation:

$$\frac{(4-i)(4+i)}{5-3i} = x + yi$$

3) Find it in its simplest form

(b) $\frac{5-10i}{5i}$ (b) $\frac{100}{4-3i}$ (c) $\frac{1-i}{2-i}$

4) Find the expression in its simplest form $(1-i)^{20}$

5) Determine the quadrant in which each of the angles whose measures lie lies as follows

(a) 40° (b) 135° (c) 350° (d) 290°

6) Find two angles, one with a positive measure and the other with a negative measure, the terminal side for each of the following angles:

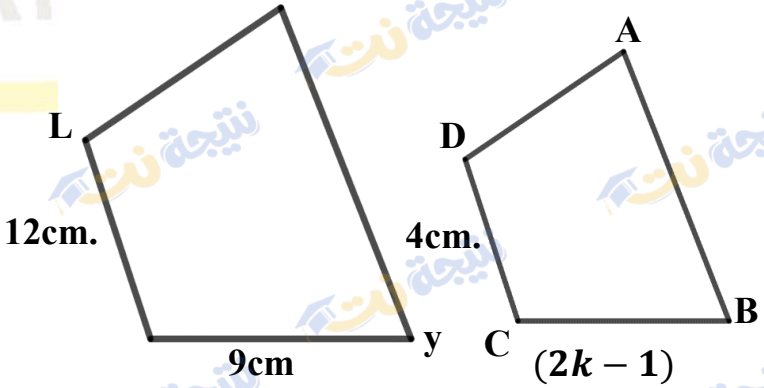
(b) 130° (b) -85° (c) -260° (d) 110°

7) In the oppsite figure:

Polygon ABCD ~ Polygon XYZL

First: Find the numerical value of $k$

Second: Find factor of Similarity





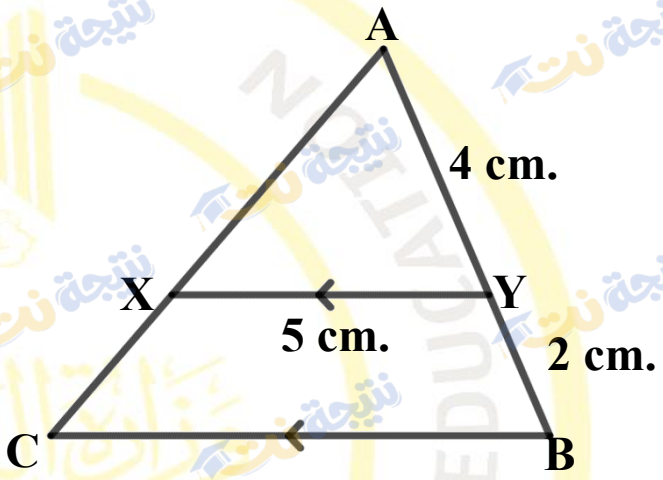

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8) A rectangle with dimensions of 8 cm and 5 cm. Find the dimension of another rectangle similar to it if:

First: factor of Similarity = 3
Second: factor of Similarity = 0.4

9) In the oppsite figure:

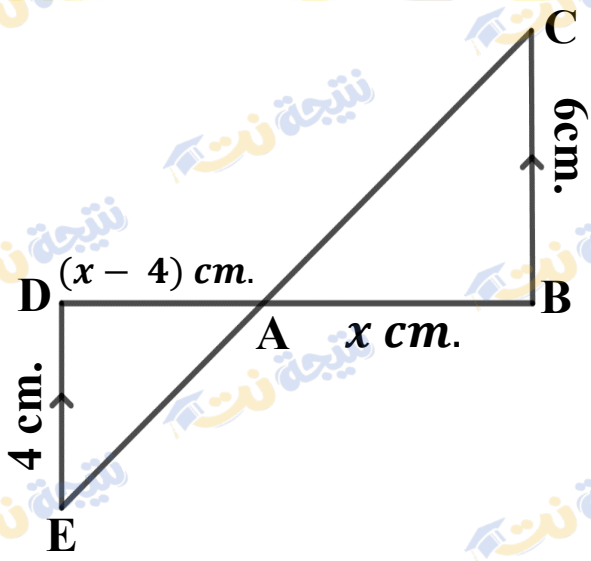
ABC is a triangle, Y $\in \overline{AB}$ , X $\in \overline{AC}$ ,
where $\overline{XY}$ // $\overline{BC}$
, AY = 4cm. YB = 2cm. XY =5 cm.




First: Prove that $\Delta ABC \sim \Delta AYX$
Second: Find the length of $\overline{BC}$

10) From the data in the opposite figure:

First: Prove that: $\Delta ABC \sim \Delta ADE$
Second: Find the value of $k$






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الصف الأول الثانوي – الرياضيات لغات - التقييمات الأسبوعية -الأسبوع الثاني

## The First Group

1) Find in simplest form: $(3-4i)+(6+i)$

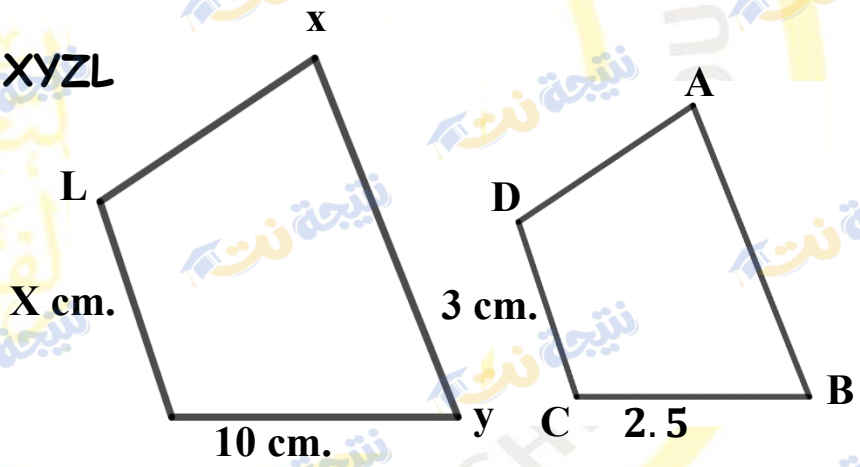
2) Find it in its simplest form $\frac{4-8i}{2i}$

3) Determine the quadrant in which each of the angles whose measures lie lies as follows:

(a) $72^\circ$ (b) $-215^\circ$

4) In the oppsite figure:

Polygon ABCD ~ Polygon XYZL




First: Find the numerical value of x

Second: Find factor of Similarity

5) A rectangle with dimensions of 20 cm and 12 cm. Find the dimension of another rectangle similar to it if:

First: factor of Similarity = 2

Second: factor of Similarity = 0.5



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## The Second Group

1) Find in simplest form: $(\sqrt{9} - 4i) - (-3 + \sqrt{-16})$

2) Find it in its simplest form $\frac{13}{2-3i}$

3) Determine the quadrant in which each of the angles whose measures lie lies as follows:

(a) $135^\circ$ (b) $-340^\circ$

4) In the oppsite figure:

ABC is a triangle, Y $\in \overline{AB}$ , X $\in \overline{AC}$ ,

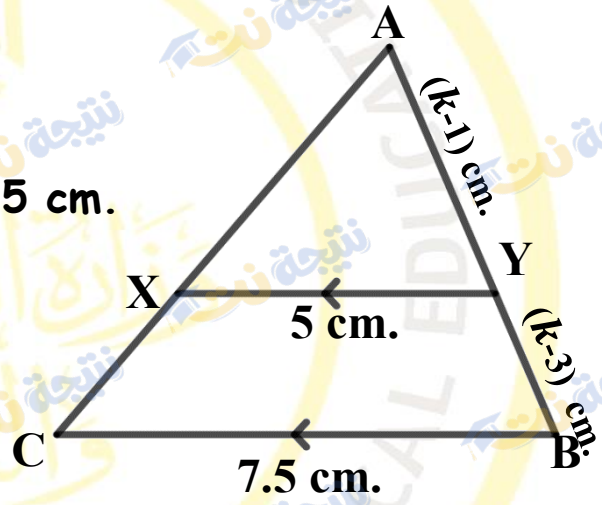
where $\overline{XY}$ // $\overline{BC}$,

AY = ($k$-1) cm. YB = ($k$-3) cm. BC = 7.5 cm.

XY = 5 cm.

First: Prove that $\Delta ABC \sim \Delta AYX$

Second: Find the value of $k$




5) A rectangle with dimensions of 20 cm and 12 cm. Find the dimension of another rectangle similar to it if:

First: factor of Similarity = 3

Second: factor of Similarity = 0.2



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## The Third Group

1) Find in simplest form: $(3 - 2i)(2 - 4i)$

2) Find it in its simplest form $\frac{5-i}{3-i}$

3) Determine the quadrant in which each of the angles whose measures lie lies as follows:

(a) $102^\circ$ (b) $-315^\circ$

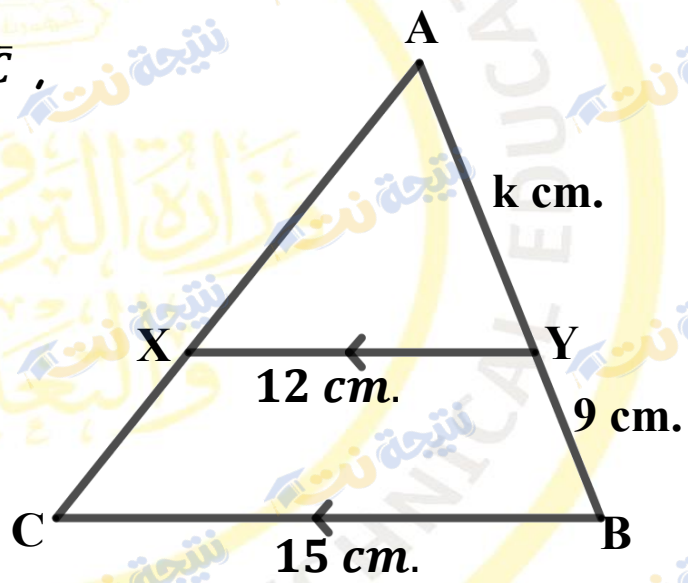
4) In the oppsite figure:

ABC is a triangle, Y $\in \overline{AB}$ , X $\in \overline{AC}$ ,

where $\overline{XY}$ // $\overline{BC}$ ,

AY = x cm. YB = 9 cm.

BC = $15\ cm.$ XY = $12\ cm.$




First: Prove that $\Delta ABC \sim \Delta AYX$

Second: Find the value of k

5) A rectangle with dimensions of 20 cm and 12 cm. Find the dimension of another rectangle similar to it if:

First: factor of Similarity = 4

Second: factor of Similarity = 0.1



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