



وزارة التربية والتعليم و التعليم الفني
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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مستشار الرياضيات

أ/ منال عزقول

أداءات وتقييمات لمنهج الرياضيات

للفصل الأول الثانوي لغات

الفصل الدراسي الأول

للعام الدراسي 2025 / 2026

الأسبوع الثاني

لجنة الإعداد

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ترجمة

أ/ محمد على

مراجعة

أ/ شريف البرهامي



الصف الأول الثانوي – الرياضيات لغات - الأداء الصفّي - 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) Put the expression: $(1 + 2i^2)(1 + 2i^5 + 5i^6)$ in the form $x + yi$

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

(a) 240°

(b) 124°

(c) 267°

(d) 50°

7) Determine the negative measure of the angles whose measure is as follows:

(a) 70°

(b) 145°

(c) 301°

(d) 250°

8) 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°

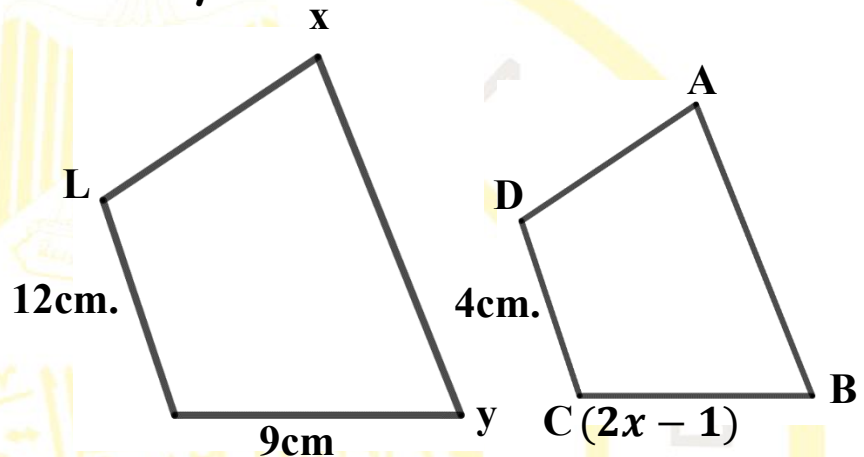


9) Determine the smallest positive measure for each of the following angles: (a) -35° (b) 565° (c) 940° (d) -480°

10) In the oppsite figure: Polygon ABCD ~ Polygon XYZL

First: Find the numerical value of x

Second: Find factor of Similarity



11) 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

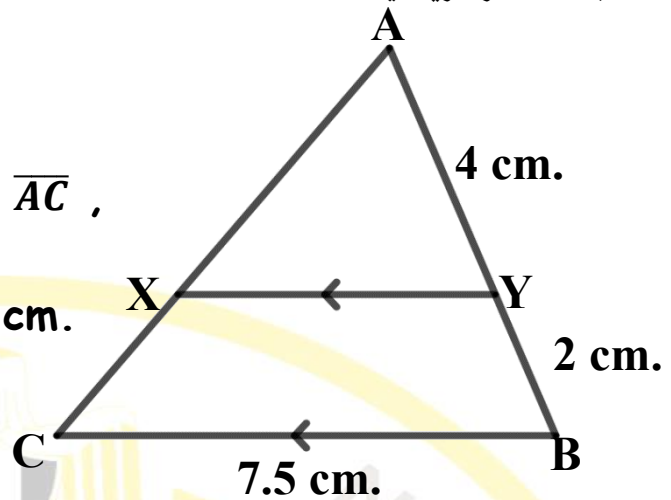
12) A polygon with a perimeter of 30 cm. Find the perimeter of another similar polygon if the similarity factor = 2.

13) In the oppsite figure:

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

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

Second: Find the length of $\overline{XY}$

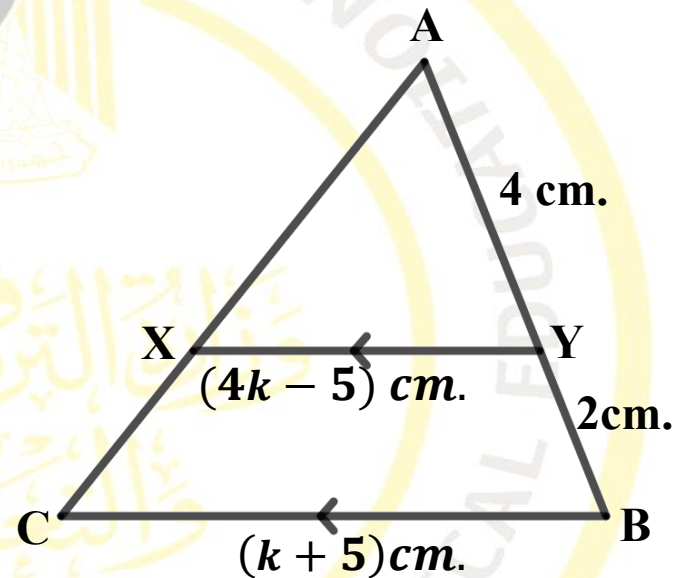


14) In the oppsite figure:

ABC is a triangle, $Y \in \overline{AB}$, $X \in \overline{AC}$,
where $\overline{XY} \parallel \overline{BC}$,
 $AY = 4\text{cm}$. $YB = 2\text{cm}$.
 $BC = (k + 5)\text{ cm}$. $XY = (4k - 5)\text{ cm}$.

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

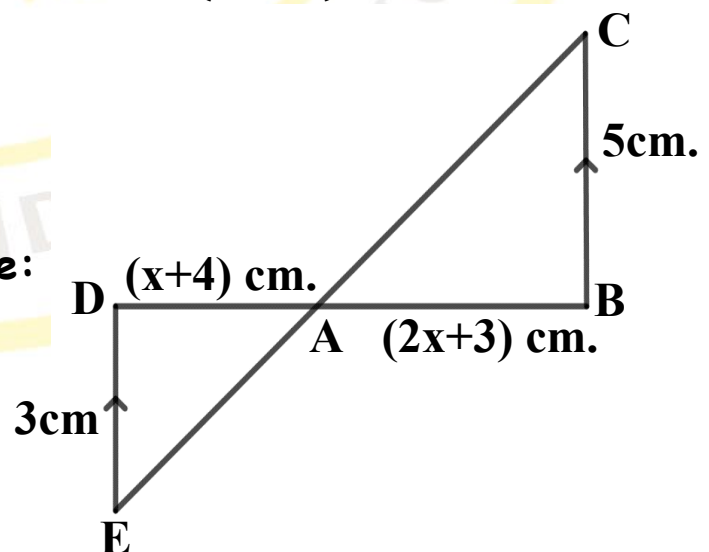
Second: Find the value of k



15) From the data in the opposite figure:

First: Prove that: $\triangle ABC \sim \triangle ADE$

Second: Find the value of x





الصف الأول الثانوي – الرياضيات لغات - الأداء المنزلي - 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) Put the expression: $(1 + 2i^5)(4 + 2i^7 + 4i^{12})$ in the form $x + yi$

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

(a) 40°

(b) 135°

(c) 350°

(d) 290°

7) Determine the negative measure of the angles whose measure is as follows:

(a) 60°

(b) 195°

(c) 317°

(d) 298°

8) 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°

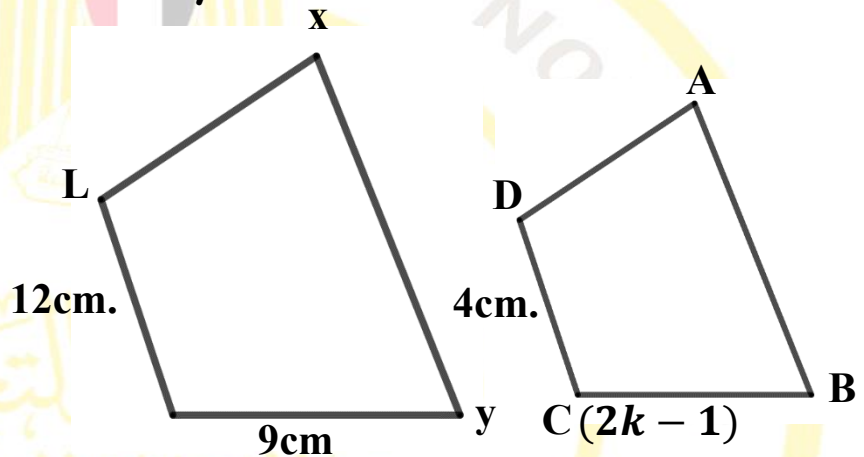


9) Determine the smallest positive measure for each of the following angles: (a) -81° (b) 665° (c) 980° (d) -465°

10) In the oppsite figure: Polygon ABCD ~ Polygon XYZL

First: Find the numerical value of k

Second: Find factor of Similarity



11) 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

12) A polygon with a perimeter of 30 cm. Find the perimeter of another similar polygon if the similarity factor = 0.5

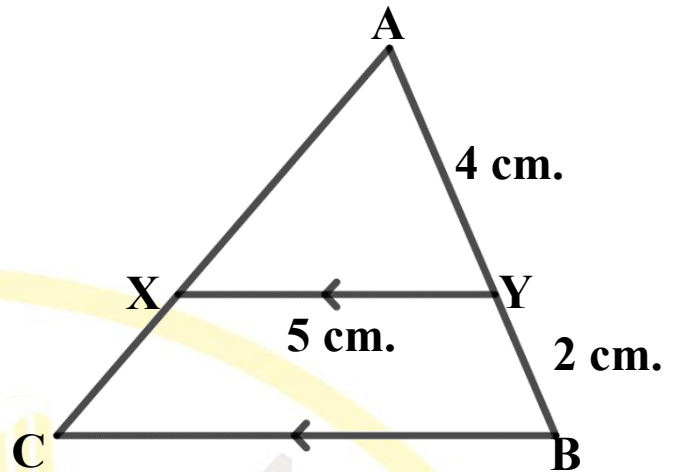


13) In the oppsite figure:

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

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

Second: Find the length of $\overline{BC}$

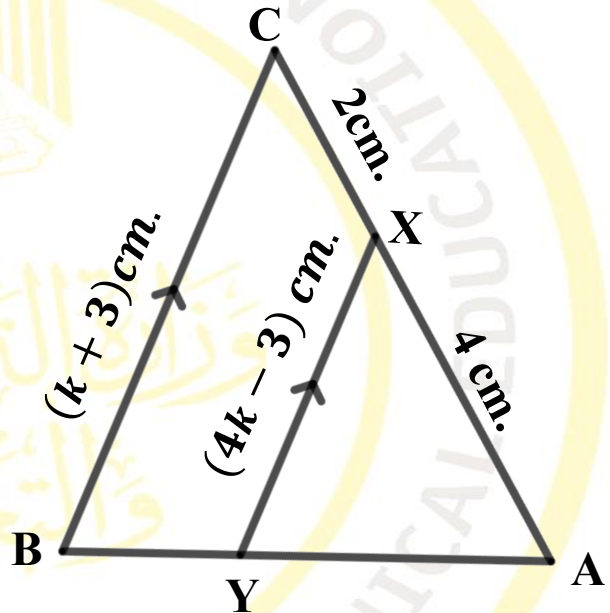


14) In the oppsite figure:

ABC is a triangle, $X \in \overline{AC}$, $Y \in \overline{AB}$
where $\overline{XY} \parallel \overline{BC}$
, $AX = 4\text{cm}$. $CX = 2\text{cm}$.
 $BC = (k + 3)\text{ cm}$. $XY = (4k - 3)\text{ cm}$.

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

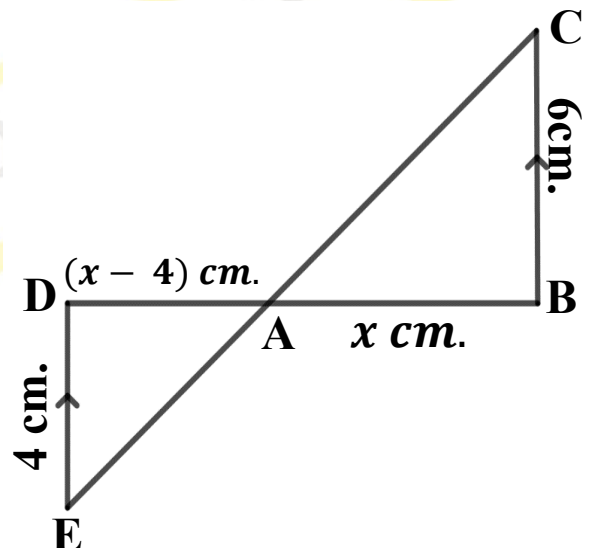
Second: Find the value of k



15) From the data in the opposite figure:

First: Prove that: $\triangle ABC \sim \triangle ADE$

Second: Find the value of k





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

(g) $(3 - 4i) + (6 + i)$

(h) $(\sqrt{9} - 4i) - (-3 + \sqrt{-16})$

(i) $(3 - 2i)(2 - 4i)$

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

$$\frac{(3-i)(3+i)}{2+2i} = x + yi$$

3) Find it in its simplest form

(c) $\frac{4-8i}{2i}$

(b) $\frac{13}{2-3i}$

(c) $\frac{5-i}{3-i}$

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

5) Put the expression: $(1 + 2i^3)(2 + 3i^5 + 4i^6)$ in the form $x + yi$

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

(a) 72°

(b) 215°

(c) 135°

(d) 340°

7) Determine the negative measure of the angles whose measure is as follows:

(a) 85°

(b) 155°

(c) 317°

(d) 249°

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

(c) 160°

(b) -35°

(c) -240°

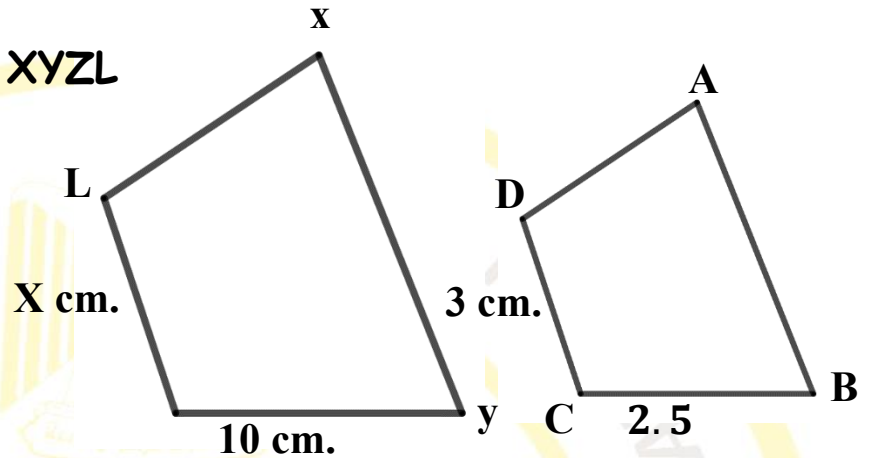
(d) 249°



9) Determine the smallest positive measure for each of the following angles: (a) -35° (b) 565° (c) 940° (d) -480°

10) In the oppsite figure:

Polygon ABCD ~ Polygon XYZL



First: Find the numerical value of x

Second: Find factor of Similarity

11) 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

12) A polygon with a perimeter of 40 cm. Find the perimeter of another similar polygon if the similarity factor = 3.

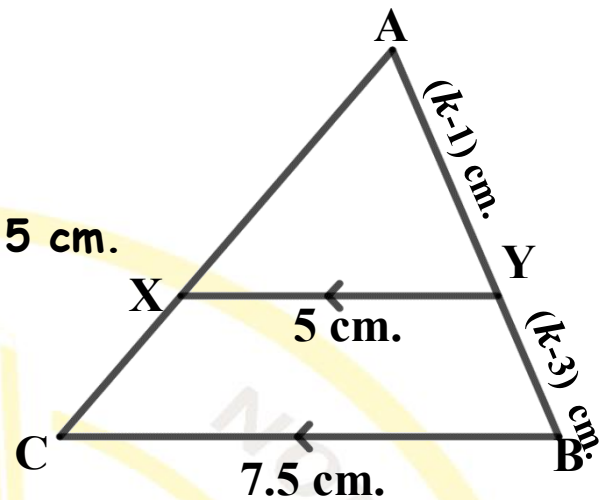
13) In the opposite figure:

ABC is a triangle, $Y \in \overline{AB}$, $X \in \overline{AC}$,
where $\overline{XY} \parallel \overline{BC}$,

$AY = (k-1)$ cm. $YB = (k-3)$ cm. $BC = 7.5$ cm.
 $XY = 5$ cm.

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

Second: Find the value of k



14) In the opposite figure:

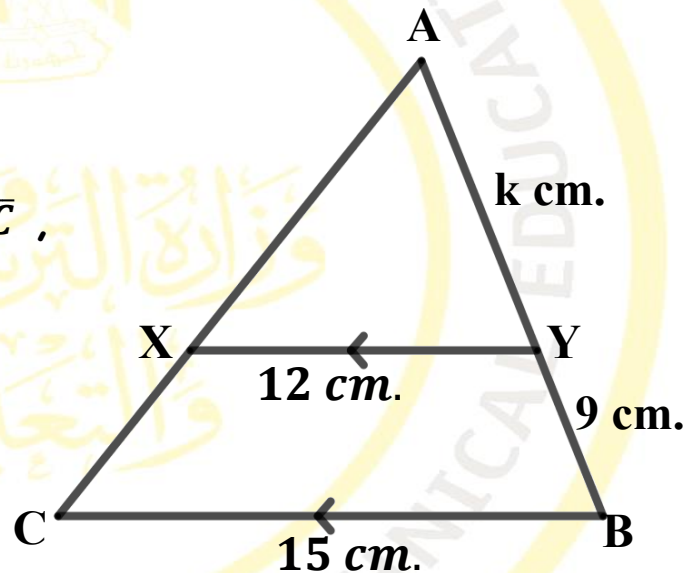
ABC is a triangle, $Y \in \overline{AB}$, $X \in \overline{AC}$,
where $\overline{XY} \parallel \overline{BC}$,

$AY = x$ cm. $YB = 9$ cm.

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

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

Second: Find the value of k



15) From the data in the opposite figure:

First: Prove that: $\triangle ABC \sim \triangle EDC$

Second: Find the value of x

