



وزارة التربية والتعليم
الإدارة المركزية لتطوير المناهج
مكتب مستشار الرياضيات

برعاية معالي وزير التربية والتعليم السيد الأسناذ / محمد عبد اللطيف

ونوجيهات رئيس الإدارة المركزية لتطوير المناهج

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أ / منال عزقول

أداءات و تقييمات
للفئة الأولى الثانوي

للعام الدراسي 2024 / 2025

إعداد

أ / نفيسة رمضان

أ / إيهاب فندي

مراجعة

أ / عصام الجزار

ترجمة

أ / محمود البشراوي

مراجعة الترجمة

أ / بلال محمد رومية

أ / أماني الشهاوي

First secondary grade – Weekly evaluation- Third week

First group :

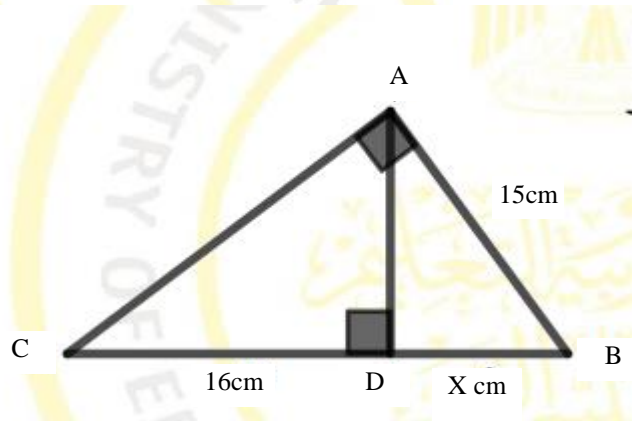
- 1) If $x = 3 - 2i$, $y = \frac{4-2i}{1+i}$ find $x + y$ as a complex number
- 2) Find the quadrant in which the angle with a measure of 150° lies, then find two angles, one with a positive measure and the other with a negative measure, that share the terminal side.
- 3) Find the radian measure and degree measure of the central angle subtended by an arc of length 14 cm in a circle of radius 10 cm.

4) In the opposite figure:

$\triangle ABC$ is a right triangle at A , $AD \perp BC$

, $AB = 15$ cm, $DC = 16$ cm , $DB = x$ cm

Find value of x (Remember $9 \times 25 = 225$)



5) In the opposite figure:

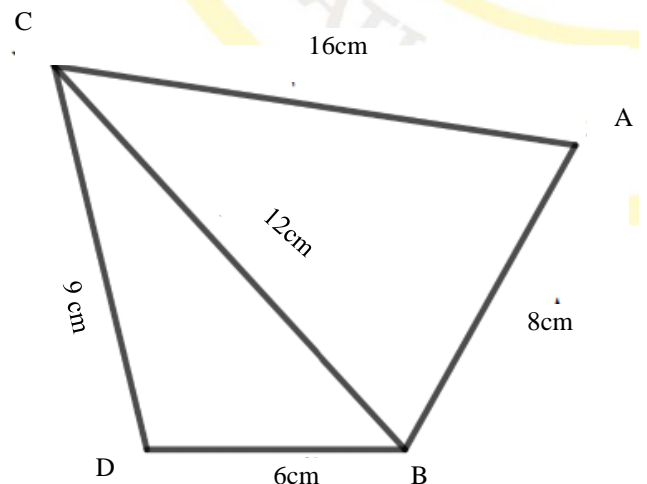
ABC is a triangle in which $AB = 8$ cm,

$AC = 16$ cm, $CB = 12$ cm,

D is a point outside the triangle ABC

such that $DB = 6$ cm, $DC = 9$ cm

Prove that: $\triangle ABC \sim \triangle BDC$



Second group :

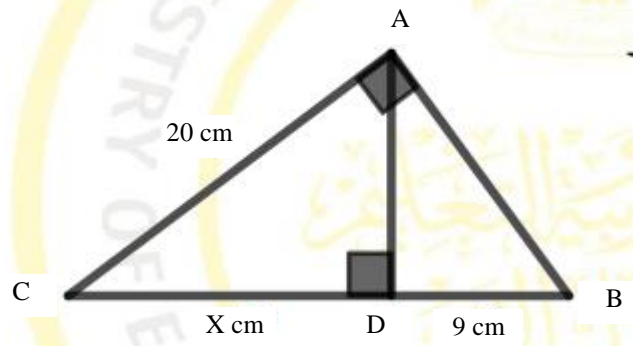
- 1) If $x = 5 - 3i$, $y = \frac{5-i}{1-i}$ find $x + y$ as a complex number
- 2) Find the quadrant in which the angle with a measure of 210° lies, then find two angles, one with a positive measure and the other with a negative measure, that share the terminal side.
- 3) Find the radian measure and degree measure of the central angle subtended by an arc of length 16 cm in a circle of radius 10 cm.

- 4) In the opposite figure:

$\triangle ABC$ is a right triangle at A , $AD \perp BC$

, $AC = 20$ cm, $DB = 9$ cm , $DC = x$ cm

Find value of x (Remember $16 \times 25 = 400$)



- 5) In the opposite figure:

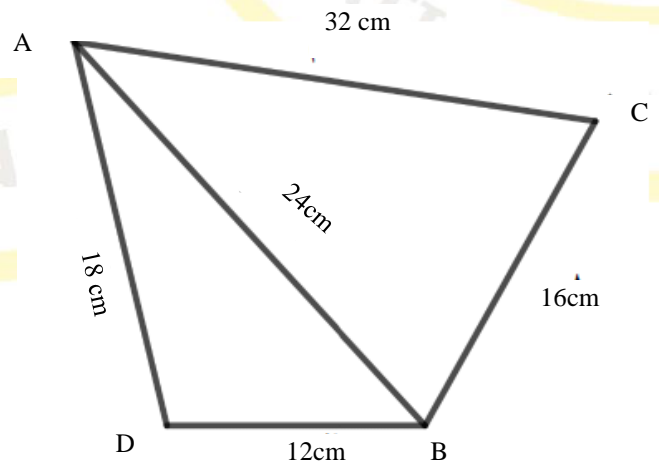
ABC is a triangle in which $AB = 24$ cm,

$AC = 32$ cm, $AB = 24$ cm,

D is a point outside the triangle ABC

such that $DB = 12$ cm, $AD = 18$ cm

Prove that: $\triangle ABC \sim \triangle ADB$



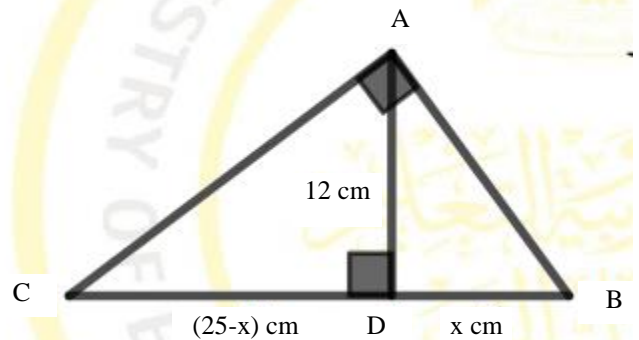


Third group :

- 1) If $x = 7 - i$, $y = \frac{7-3i}{1-i}$ find $x + y$ as a complex number
- 2) Find the quadrant in which the angle with a measure of 330° lies, then find two angles, one with a positive measure and the other with a negative measure, that share the terminal side.
- 3) Find the radian measure and degree measure of the central angle subtended by an arc of length 15 cm in a circle of radius 10 cm.

4) In the opposite figure:

ΔABC is a right triangle at A , $AD \perp BC$
, $AD = 12$ cm, $DB = x$ cm , $DC = (25-x)$ cm
Find value of x (Remember $16 \times 9 = 144$)



5) In the opposite figure:

XYZ is a triangle in which $XY = 8$ cm,
 $YZ = 4$ cm , $XZ = 6$ cm,
 L is a point outside the triangle XYZ
such that $LZ = 3$ cm, $LX = 4.5$ cm
Prove that: $\Delta XZY \sim \Delta XLZ$

