وزارة التربية والتعليم
الإدارة المركزية لتطوير المناهج
مكتب مستشار الرياضيات

برعاية معالي وزير التربية والتعليم

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وتوجيهات رئيس الإدارة المركزية لتطوير المناهج

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مستشار الرياضيات

أ/ منال عزقول

أداءات وتقييمات لمنهج الرياضيات

للصف الأول الثانوي

للعام الدراسي 2024 / 2025

إعـــداد

أ/ إيهاب فتحي

مراجـــعة

أ/ عفاف جاد

أ/ عصام الجـــزار

ترجـــمة

أ/ محسب علي

مراجـــعة الترجـــمة

أ/ شريف البرهامي

الصف الأول الثانوي – الرياضيات – الأداء الصفي – الأسبوع العاشر

(1) Determaine the sign of the following function:

$(a) f(x) = 7$ $(b)\ f(x) = -4$

(2) Determaine the sign of the following function:

(a) $f(x) = 2x + 4$ (b) $f(x) = 3 - 2x$

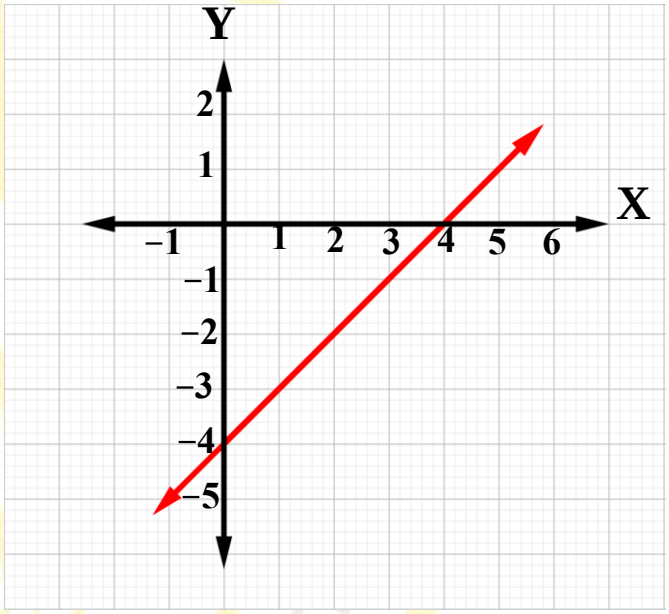
(3) The opposite figure represents a function of first degree in x

Complete the following:

(a) $f(x) = 0, at\ x \in \{\dots\}$

(b) $f(x) is\ positive\ in\ the$ Interval .....

(c) $f(x) is\ negative\ in\ the$ Interval .....



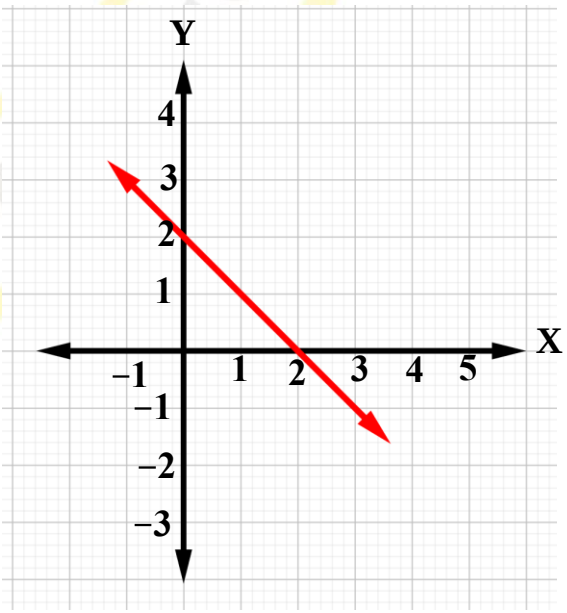
(4) The opposite figure represents a function of first degree in x

Complete the following:

(a) $f(x) = 0, at\ x \in \{\dots\}$

(b) $f(x) > zero\ when$ ...

(c) $f(x) < zero\ when$ ...



(5) Graph the curve of the function f: $f(x) = 3sin\theta, where\ \theta \in [0, 2\pi]$, From the graph, find the maximum and the minmum values of the function- the range of the function, its period.

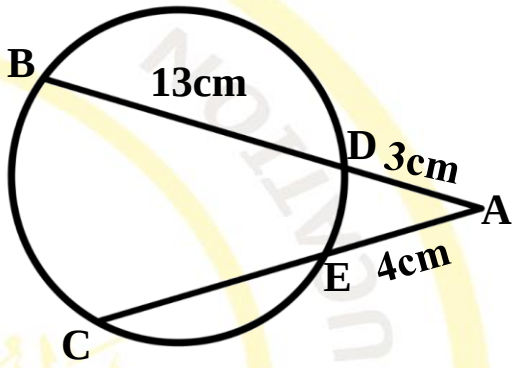
(6) In the opposite figure:

$\overrightarrow{BD} \cap \overrightarrow{CE} = \{A\}$

AD = 3 cm, DB = 13 cm.

AE = 4 cm

Find the length of $\overline{EC}$.



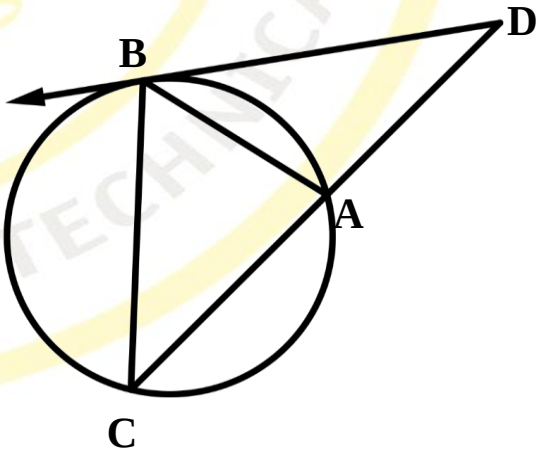
(7) In the opposite figure:

$\overrightarrow{DB}$ is a tangent to the circle at B, $\overrightarrow{DC}$ is a secant to the circle at A, C respectvlay.

First: prove that: $\triangle DBA \sim \triangle DCB$

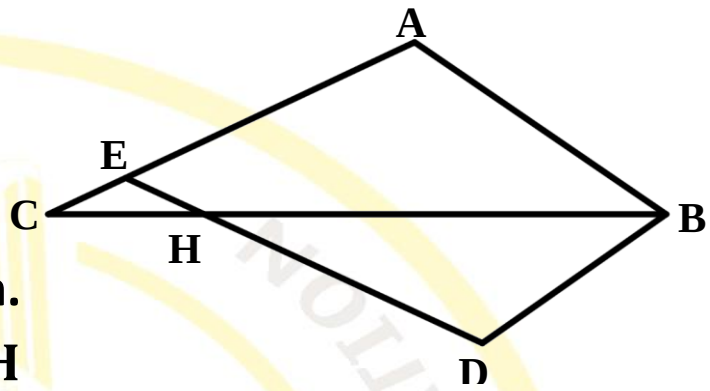
Second: if DA = 4cm, AC = 5cm,

Find the length of $\overline{DB}$.



(8) Two similar tringles their areas are 64 cm^2, 25 cm^2, if the perimeter of the first triangle is 40 cm, find the perimeter of the other triangle.

(9) In the opposite figure:



$\overline{BC} \cap \overline{DE} = \{H\}$, AB = 6 cm

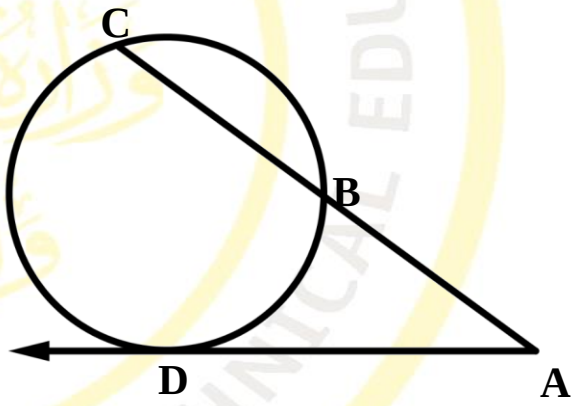
$BC = 12cm, CA = 8cm$

HC = 3cm, DB = 4.5cm, DH = 6 cm.

Prove that first: $\triangle ABC \sim \triangle DBH$

Second: $\triangle EHC$ is an isosceles triangle.

(10) In the opposite figure:



$\overrightarrow{AD}$ is a tangent to the circle

at D, $\overrightarrow{AC}$ is a secant to the circle

at B, C respectvlay.

Answer the following:

first: if AC = 8cm, AB = 2cm, find AD.

Second : if AB = BC, AD = $2\sqrt{3}$ cm, find AC.

(11) In the opposite figure:

$L \in \overline{XY}$, where XL = 4cm

$LY = 8cm, M \in \overline{XZ},$

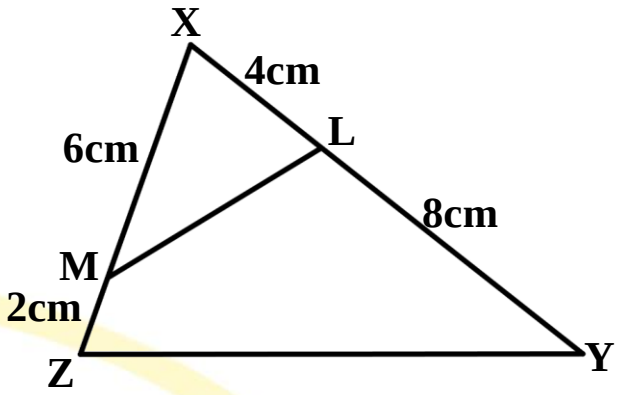
$XM = 6cm, MZ = 2cm$

Prove that:

First: $\triangle XLM \sim \triangle XZY$

Second: the figure LYZM is a cyclic quadrilateral.

(The points L, Y, Z, M on a circle)



(12) In the opposite figure:

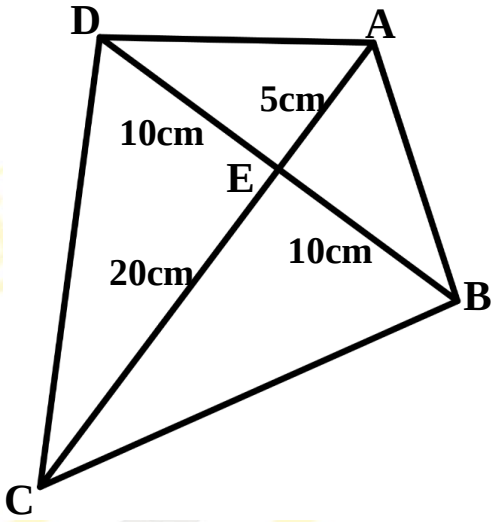
ABCD is a quadrilateral

its diagonals intersect at E, where

EA = 5cm, EC = 20cm, EB = ED = 10cm.

Prove that ABCD is a cyclic quad.

(the points A, B, C, D on a circle).



(13) In the opposite figure:

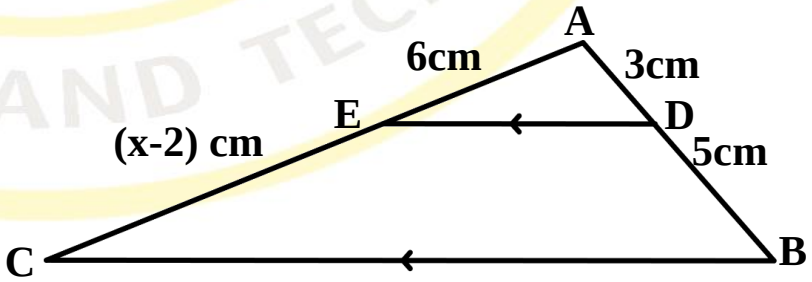
ABC is a triangle,

$E \in \overline{AC}, D \in \overline{AB}$

Where $\overline{DE} // \overline{BC}$, AD = 3cm

DB = 5 cm, AE = 6cm,

EC = (x-2)cm. Find the value 0f x.



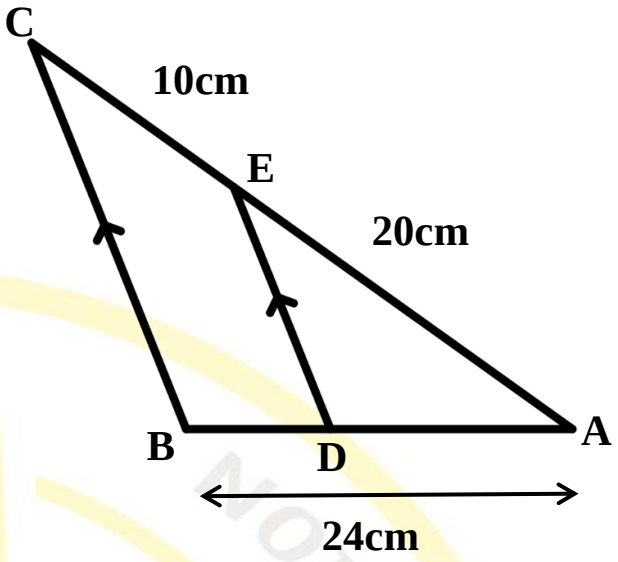
(14) In the opposite figure:

ABC is a triangle, $E \in \overline{AC}$, $D \in \overline{AB}$

Where $\overline{DE} \,//\, \overline{BC}$, AB = 24cm

AE = 20cm, EC = 10cm.

Find the lenth of $\overline{DB}$



(15) In the opposite figure:

ABC is a triangle, $E \in \overline{BC}$, $D \in \overline{AB}$

Where $\overline{DE} \,//\, \overline{AC}$, EC = 10 cm

AD = 8 cm, DB = 12 cm, EB = (2x+5) cm

Find the value of x