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

First Group:

(1) Determaine the sign of the following function:

(a) $f(x) = 9$ (b) $f(x) = -6$

(2) Determaine the sign of the following function:

(a) $f(x) = 2x + 12$ (b) $f(x) = 6 - 2x$

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

(4) $\overline{AB}$, $\overline{CD}$ are two chords in a circle $\overline{AB} \cap \overline{CD} = \{E\}$, where AE = EB, EC = 4 cm, ED = 9 cm, find the length of $\overline{AB}$.

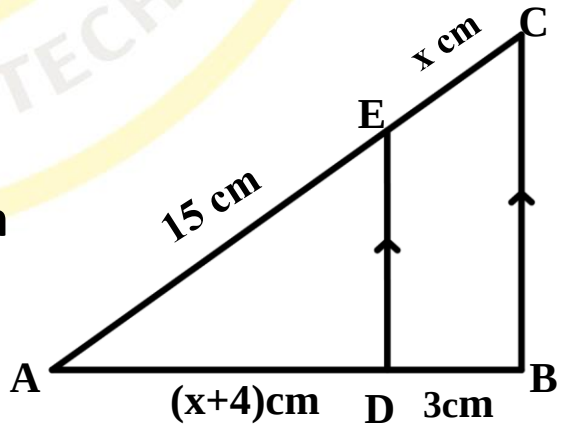
(5) In the opposite figure:

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

Where $\overline{DE} \,//\, \overline{BC}$, EC = x cm

AD = (x+4) cm, DB = 3 cm, EA = 15 cm

Find the value of x.



Second Group:

(1) Determaine the sign of the following function:

(a) $f(x) = 7$ (b) $f(x) = -1$

(2) Determaine the sign of the following function:

(a) $f(x) = 4x + 8$ (b) $f(x) = 6 - 3x$

(3) Graph the curve of the function f:

$f(x) = 9sin\theta, where\ \theta \in [0, 2\pi]$, From the graph, find the maximum and the minmum values of the function- the range of the function, its period.

(4) $\overline{AB}$, $\overline{CD}$ are two chords in a circle $\overline{AB} \cap \overline{CD} = \{E\}$, where AE = EB, EC = 9 cm, ED = 16 cm, find the length of $\overline{AB}$.

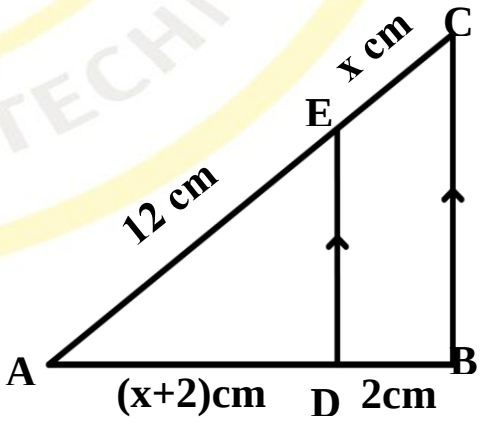
(5) in the opposite figure:

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

Where $\overline{DE} // \overline{BC}$, EC = x cm

AD = (x+4) cm, DB = 3 cm, EA = 15 cm

Find the value of x.



Third Group:

(1) Determaine the sign of the following function:

(a) $f(x) = 3$ (b) $f(x) = -9$

(2) Determaine the sign of the following function:

(a) $f(x) = 3x + 15$ (b) $f(x) = 8 - 2x$

(3) Graph the curve of the function f:

$f(x) = 7sin\theta, where\ \theta \in [0, 2\pi]$, From the graph, find the maximum and the minmum values of the function- the range of the function, its period.

(4) $\overline{AB}$, $\overline{CD}$ are two chords in a circle $\overline{AB} \cap \overline{CD} = \{E\}$, where AE = EB, EC = 4 cm, ED = 25 cm, find the length of $\overline{AB}$.

(5) In the opposite figure:

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

Where $\overline{DE} \,//\, \overline{BC}$, EC = x cm

AD = (x+1) cm, DB = 2 cm, EA = 15 cm

Find the value of x.