



وزارة التربية والتعليم و التعليم الفني
الإدارة المركزية للتعليم العام
إدارة تنمية مادة الرياضيات

برعاية معالي وزير التربية والتعليم و التعليم الفني السيد الأستاذ/ محمد عبد اللطيف

وتوجيهات رئيس الإدارة المركزية للتعليم العام

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إشراف علمي
مستشار الرياضيات
أ/ منال عزقول

أداءات وتقييمات لمنهج الرياضيات العامة لغات

للفصل الثاني الثانوي "أدبي"
الفصل الدراسي الأول
للعام الدراسي 2025 / 2026

الأسبوع الرابع

لجنة الإعداد

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لجنة الترجمة

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مراجعة الترجمة

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4 الرياضيات العامة لغات - للصف الثانى الثانوي - الشعبة الأدبية - الأداء الصفى - الأسبوع الرابع

- (1) In ΔABC , if $m(\angle A) = 55^\circ$, $m(\angle B) = 74^\circ$, $c = 8$ cm, then find the length of the radius of the circumcircle of ΔABC to the nearest centimeter.
- (2) In ΔABC , if $m(\angle C) = 94^\circ$, $c = 12$ cm, then find the length of the diameter of the circumcircle of ΔABC to the nearest two decimal places.
- (3) Find the circumference of the circumcircle of the equilateral ΔABC , whose side length is 8 cm
- (4) In ΔXYZ , if the length of the radius of the circumcircle of $\Delta XYZ = 8$ cm, $m(\angle X) = 50^\circ$, then find x the nearest two decimal places.
- (5) If the area of the circumcircle of ΔABC is 36π cm² and $m(\angle A) = 37^\circ$, then find a .
- (6) Investigate the type of each function whether it is even, odd or otherwise:
a) $f(x) = x^2 + \cos x$ b) $g(x) = x^2 \tan x$
- (7) Investigate the type of each function whether it is even, odd or otherwise:
a) $f(x) = x - x^2$ b) $g(x) = x^5 + \sin x$
- (8) Graph the function f , where $f(x) = x$, from the deduce whether the function is even, odd or otherwise
- (9) Graph the function f , where $f(x) = x^2$, from the deduce whether the function is even, odd or otherwise

- (10) Graph the function f , where $f(x) = x^3$, from the graph deduce whether the function is even, odd or otherwise
- (11) Graph the function f , where $f(x) = |x|$, from the graph deduce whether the function is even, odd or otherwise
- (12) Graph the function f , where $f(x) = \frac{1}{x}$, from the graph deduce whether the function is even, odd or otherwise
- (13) Graph the function f , where $f(x) = \begin{cases} x + 1 & \text{when } x < 1 \\ 2 & \text{when } x \geq 1 \end{cases}$
- (14) Find: $\lim_{x \rightarrow 4} (3x^2 - x + 2)$
- (15) Find: $\lim_{x \rightarrow -1} \frac{2x+4}{x+3}$

4 الرياضيات العامة لغات - للصف الثانى الثانوي - الشعبة الأدبية - الأداء المنزلى - الأسبوع الرابع 4

- (1) In ΔABC , if $m(\angle A) = 67^\circ$, $m(\angle B) = 45^\circ$, $c = 18$ cm, then find the length of the radius of the circumcircle of ΔABC to the nearest centimeter.
- (2) In ΔABC , if $m(\angle C) = 27^\circ$, $c = 10$ cm, then find the length of the diameter of the circumcircle of ΔABC to the nearest two decimal places.
- (3) In ΔABC , if $m(\angle B) = 65^\circ$, $b = 15$ cm, then find the circumference of the circumcircle of ΔABC (Consider $\pi = \frac{22}{7}$)
- (4) Find the area of the circumcircle of an equilateral triangle whose side length is 24 cm
- (5) In ΔXYZ , if the length of the diameter of the circumcircle of $\Delta XYZ = 16$ cm, $m(\angle Z) = 70^\circ$, then find z the nearest two decimal places.
- (6) Investigate the type of each function whether it is even, odd or otherwise:
a) $f(x) = x^3 \cos x$ b) $g(x) = x^2 + \tan x$
- (7) Investigate the type of each function whether it is even, odd or otherwise:
a) $f(x) = 7 + x^2$ b) $g(x) = x^2 \sin x$
- (8) Graph the function f , where $f(x) = \begin{cases} x + 3 & \text{when } x < 2 \\ 5 & \text{when } x \geq 2 \end{cases}$
- (9) Graph the function f , where $f(x) = x$, when $x \geq 2$

(10) Graph the function f , where $f(x) = x^2$, when $x < 0$

(11) Graph the function f , where $f(x) = \begin{cases} x^3 & \text{when } x \geq 0 \\ |x| & \text{when } x < 0 \end{cases}$

(12) Graph the function f , where $f(x) = \frac{1}{x}$, when $x < 0$

(13) Graph the function f , where $f(x) = \begin{cases} x^2 & \text{when } x < 1 \\ 1 & \text{when } x \geq 1 \end{cases}$

(14) Find: $\lim_{x \rightarrow 0} (x^2 + x + 4)$

(15) Find: $\lim_{x \rightarrow 1} \frac{x+6}{x-5}$

4 الرياضيات العامة لغات - الصف الثانى الثانوي - الشعبة الأدبية - التقييمات الأسبوعية - الأسبوع الرابع 4

First Group

- (1) Graph the function f , where $f(x) = \begin{cases} x^2 & \text{when } x < 2 \\ 4 & \text{when } x \geq 2 \end{cases}$
- (2) Investigate the type of the function f , where $f(x) = x \cos x$ whether it is even, odd or otherwise
- (3) In ΔABC , if $m(\angle A) = 35^\circ$, $m(\angle B) = 85^\circ$, $c = 9$ cm, then find the length of the radius of the circumcircle of ΔABC to the nearest centimeter.
- (4) In ΔXYZ , if the length of the diameter of the circumcircle of $\Delta XYZ = 12$ cm, $m(\angle X) = 70^\circ$, then find x the nearest two decimal places.
- (5) Find: $\lim_{x \rightarrow 1} (x^2 + x - 4)$

Second Group

(1) Graph the function f , where $f(x) = \begin{cases} x^2 & \text{when } x < 0 \\ x & \text{when } x \geq 0 \end{cases}$

(2) Investigate the type of the function f , where $f(x) = x \tan x$ whether it is even, odd or otherwise

(3) Find the area of the circumcircle of an equilateral triangle whose side length is 10 cm

(4) In ΔABC , if $m(\angle C) = 54^\circ$, $c = 14$ cm, then find the length of the diameter of the circumcircle of ΔABC to the nearest tenth.

(5) Find: $\lim_{x \rightarrow 1} (x^2 + x - 4)$

Third Group

- (1) Graph the function f , where $f(x) = \begin{cases} x & \text{when } x < 3 \\ 3 & \text{when } x \geq 3 \end{cases}$
- (2) Investigate the type of the function f , where $f(x) = x \sin x$ whether it is even, odd or otherwise
- (3) If the area of the circumcircle of ΔABC is $36\pi \text{ cm}^2$ and $m(\angle A) = 37^\circ$, then find a .
- (4) In ΔABC , if $m(\angle C) = 30^\circ$, $c = 6 \text{ cm}$, then find the perimeter of the circumcircle of ΔABC to the nearest centimeter. (Consider $\pi = \frac{22}{7}$)
- (5) Find: $\lim_{x \rightarrow 2} (x^2 + 2x - 6)$