وزارة التربية والتعليم و التعليم الفنى
الادارة المركزية للتعليم العام
إدارة تنمية مادة الرياضيات

برعاية معالي وزير التربية والتعليم و التعليم الفنى

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وتوجيهات رئيس الادارة المركزية للتعليم العام

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إشراف علمي

مستشار الرياضيات

أ/ منال عزقول

أداءات وتقييمات لمنهج الرياضيات البحتة لغات

للصف الثانى الثانوي "علمى"

الفصل الدراسى الأول

للعام الدراسي 2026 / 2027

الأسبوع الأول

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مراجعة الترجمة
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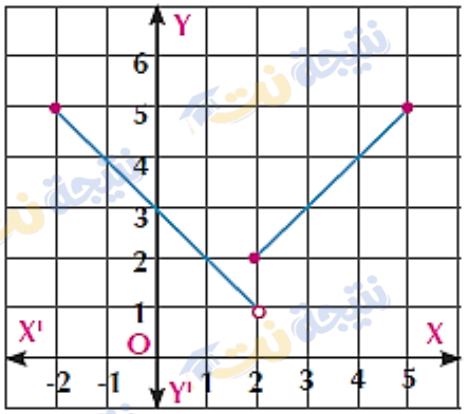
رياضيات بحتة لغات - 2 ث علمي - الأداء الصفي - الأسبوع الأول

1) ABC is a triangle in which: m(∠ A) = 44°, m(∠ B) = 56°, and c = 6.5 cm.
Find a to the nearest two decimal places.

2) ABC is a triangle in which: m(∠ A) = 47°, m(∠ C) = 66°, and the perimeter of the triangle = 75 cm. Find b to the nearest tenth.

3) In triangle ABC, if $2 \sin A = 3 \sin B = 4 \sin C$, then find $a : b : c$.

4) The opposite graph represents the relation between X and Y.
Is Y a function of X?
If yes, determine the domain and range.



5) If: $f(x) = \begin{cases} x^2 + 3 & \text{when} \quad -3 \le x < 2 \\ 5x - 4 & \text{when} \quad x \ge 2 \end{cases}$

Find $f(3)$, $f(-1)$.

6) Find the domain of the function f: $f(x) = \dfrac{x+4}{\sqrt{4x+8}}$

7) If $f(x) = x^2 - x$, and $g(x) = \sqrt{x-1}$, determine the domain of $(f \times g)(x)$.

8) If $f(x) = x^2 - 1$, and $g(x) = \sqrt{x+1}$, determine the domain of $\dfrac{g(x)}{f(x)}$.

9) Determine the domain of the function f: $f(x) = \sqrt{x} - \dfrac{1}{1-x}$

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10) If the domain of the function f: $f(x) = \frac{x+1}{x^2+6x+k}$ is $\mathbb{R}$, then find the possible values of k.

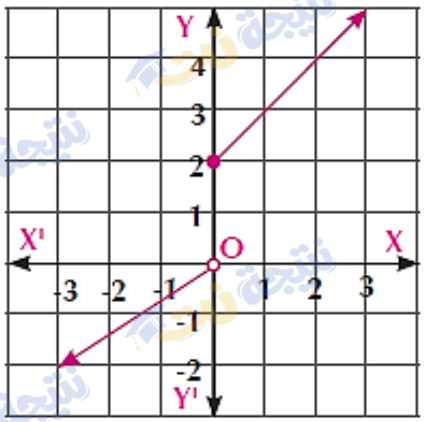
رياضيات بحتة لغات - 2 ث علمي - الأداء المنزلى - الأسبوع الأول

1) ABC is a triangle in which: m(∠ A) = 87°, m(∠ B) = 43°, and c = 9 cm. Find a to the nearest two decimal places.

2) ABC is a triangle in which: m(∠ A) = 54°, m(∠ C) = 73°, and the perimeter of the triangle = 44 cm. Find b to the nearest tenth.

3) In triangle ABC, if 3 sin A = 4 sin B = 2 sin C , then find $a : b : c$.

4) The opposite graph represents the relation between X and Y.
Is Y a function of X?
If yes, determine the domain and range.



5) If: $f(x) = \begin{cases} x^2+3 & \text{when } -7 \le x < 0 \\ 5x-4 & \text{when } x \ge 0 \end{cases}$

Find $f(-3)$, $f(4)$.

6) Find the domain of the function f: $f(x) = \frac{x-5}{\sqrt{6x-3}}$

7) If $f(x) = x^2 + 3x$, and $g(x) = \sqrt{x-3}$, determine the domain of $(f+g)(x)$.

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8) If $f(x) = x^2 - 4$, and $g(x) = \sqrt{x+2}$, determine the domain of $\frac{g(x)}{f(x)}$.

9) Determine the domain of the function f: $f(x) = \sqrt{x-5} - \frac{1}{5-x}$

10) If the domain of the function f: $f(x) = \frac{x-3}{x^2+10x+k}$ is $\mathbb{R}$, then find the possible values of k.

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The First Group

1) Solve the triangle XYZ where: m(∠ X) = 46°, m(∠ Y) = 85°, and z = 8.4 cm.

2) In triangle XYZ, if m(∠ X) : m(∠ Y) : m(∠ Z) = 2 : 3 : 4 and x = 10 cm, find the surface area of the triangle to the nearest cm².

3) Which of the following relations represent a function from X → Y:

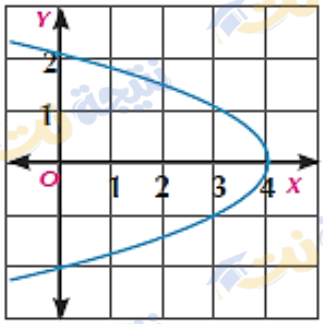


Fig (1)

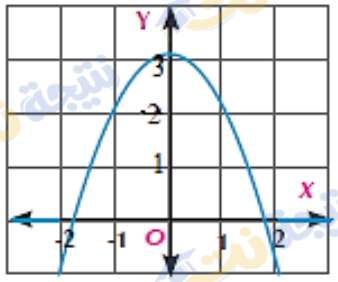


Fig (2)

4) If $f(x) = x^2 - 1$, and $g(x) = \sqrt{x+1}$, determine the domain of $f.g(x)$.

5) Determine the domain of the function f: $f(x) = \sqrt{x^2 - 4}$, then find, if possible, $f(2)$ and $f(3)$.

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The Second Group

1) Solve the triangle XYZ where: m(∠ X) = 70°, m(∠ Y) = 65°, and z = 9 cm.

2) In triangle XYZ, if m(∠ X) : m(∠ Y) : m(∠ Z) = 1 : 2 : 3 and x = 10 cm, find the surface area of the triangle to the nearest cm².

3) Which of the following relations represent a function from X → Y

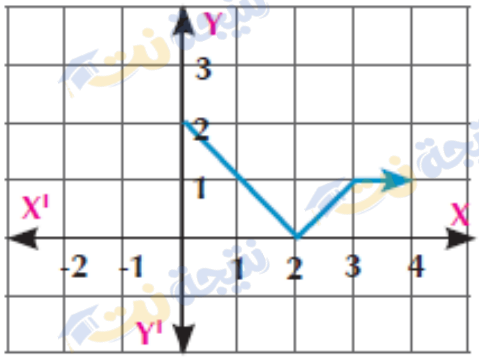


Fig (1)

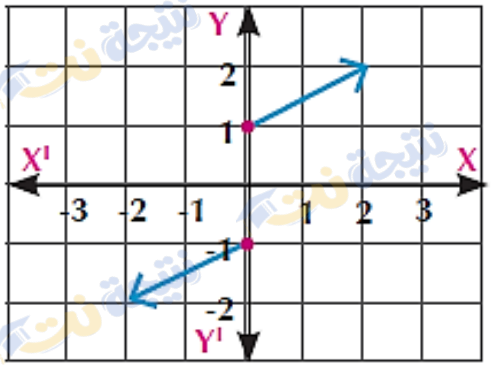


Fig (2)

4) If $f(x) = x^2 - 4$, and $g(x) = \sqrt{x+2}$, determine the domain of $f - g(x)$.

5) Determine the domain of the function f: $f(x) = \sqrt{x^2 - 49}$, then find, if possible, $f(7)$ and $f(0)$.

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The Third Group

1) Solve the triangle XYZ where: m(∠ X) = 50°, m(∠ Y) = 75°, and Z = 8 cm.

2) In triangle XYZ, if m(∠ X) : m(∠ Y) : m(∠ Z) = 5 : 3 : 4 and x = 8 cm, find the surface area of the triangle to the nearest cm².

3) Which of the following relations represent a function from X → Y:

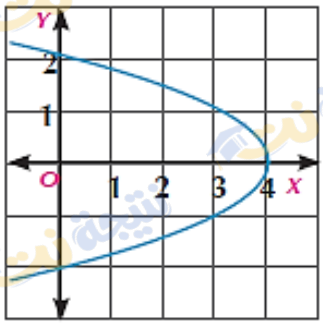


Fig (1)

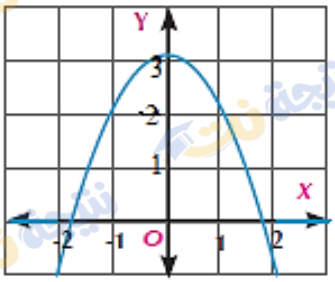


Fig (2)

4) If $f(x) = x^2 - 9$, and $g(x) = \sqrt{x+4}$, determine the domain of $f + g(x)$.

5) Determine the domain of the function f: $f(x) = \sqrt{x^2 - 1}$, then find, if possible, $f(1)$ and $f(5)$.

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