



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

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

وتوجيهات رئيس الإدارة المركزية للتعليم العام

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إشراف علمي
مستشار الرياضيات

أ/ منال عزقول

أدعاءات وتقييمات لمنهج الرياضيات البحتة لغات

للفص الثاني الثانوي "علمي"

الفصل الدراسى الأول

للعام الدراسي 2025 / 2026

الأسبوع الثانى

مراجعة

أ/ محمود السيد

إعداد

أ/ محمد عبد العاطى

ترجمة

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مراجعة الترجمة

أ/ شريف البرهامى



رياضيات بحة لغات - الصف الثاني الثانوى - علمي - الأداء الصفي - الأسبوع الثاني

1) Determine the domain of the function $f: f(x) = \frac{x-1}{x^2+3x}$

2) Determine the domain of the function $f: f(x) = \sqrt{2x-6}$

3) Determine the domain of the function $f: f(x) = \sqrt{3x}$

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

5) Determine the domain of the function $f: f(x) = \frac{1}{\sqrt{6-2x}}$

6) Determine the domain of the function $f: f(x) = \begin{cases} x^2 + 1 & , -3 < x < 1 \\ 7x - 1 & , x > 1 \end{cases}$

Then find if possible $f(0)$, $f(1)$, $f(2)$, $f(-4)$

7) Determine the domain of the function : $f(x) = \frac{1}{\sqrt{x+1}-2}$

8) The opposite table shows the values of f , g

use the table to find

$(g \circ f)(1)$, $(g \circ f)(3)$,

$(f \circ g)(4)$, $(g \circ f)(1)$

x	1	2	3	4
$f(x)$	3	1	4	2
$g(x)$	4	3	2	1



9) If $f(x) = 5x + 3$, $g(x) = \sqrt{x^2 + 1}$, then find
 $(f \circ g)(\sqrt{3})$, $(g \circ f)(-1)$, $(f \circ f)(4)$, $(g \circ g)(0)$

10) If $f(x) = 5x + 3$, $g(x) = \frac{x-3}{5}$, then find
 $(f \circ g)(x)$, $(g \circ f)(x)$ then find $(f \circ g)(1)$, $(g \circ f)(1)$

11) Find (if possible) the result of each of the following operations:

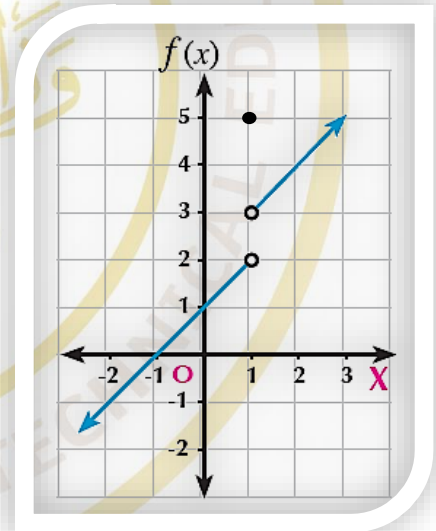
- a) $(-3) + \infty$ b) $(-3) \times \infty$ c) $0 \times \infty$ d) $0 \div 5$

12) If the opposite figure represents

the graphical representation of

the function f , then find:

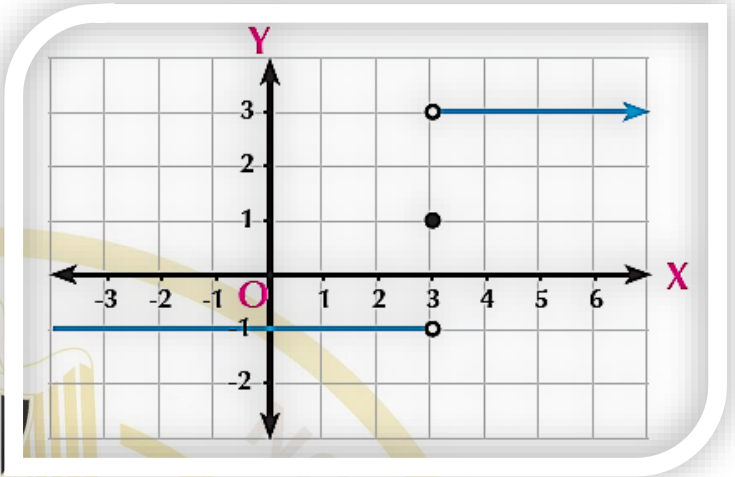
$f(1)$, $f(-2)$, $\lim_{x \rightarrow 1} f(x)$





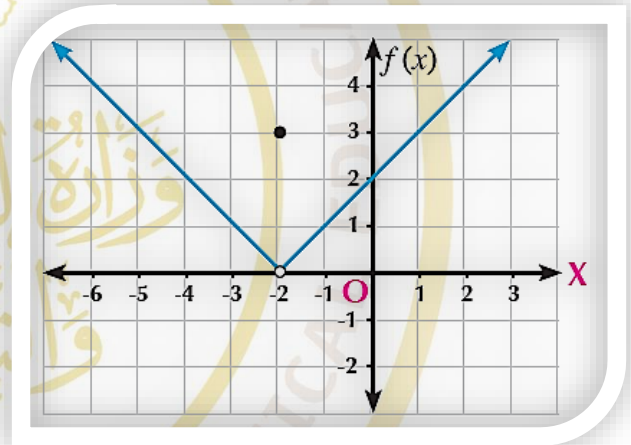
13) If the opposite figure represents
the graphical representation of
the function f , then find:

$$f(3), f(0), \lim_{x \rightarrow 3} f(x)$$



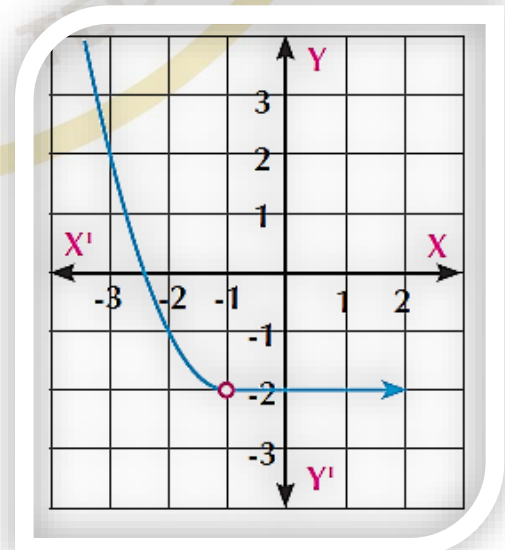
14) If the opposite figure represents
the graphical representation of
the function f , then find:

$$f(-2), f(0), \lim_{x \rightarrow -2} f(x)$$



15) If the opposite figure represents
the graphical representation of
the function f , then find:

$$f(-1), f(-2), \lim_{x \rightarrow -1} f(x)$$





رياضيات بحة لغات - الصف الثاني الثانوى - علمي - الأداء المنزلى - الأسبوع الثاني

1) Determine the domain of the function $f: f(x) = \frac{7x}{5x^2 - 3x}$

2) Determine the domain of the function $f: f(x) = \sqrt{9 - 3x}$

3) Determine the domain of the function $f: f(x) = 4 - \sqrt{3x}$

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

5) Determine the domain of the function $f: f(x) = \frac{1}{\sqrt{2 - 4x}}$

6) Determine the domain of the function : $f(x) = \begin{cases} 3x + 2 & , x < 2 \\ x^2 & , x > 2 \end{cases}$

Then find if possible $f(0)$, $f(2)$, $f(3)$, $f(-1)$

7) Determine the domain of the function : $f(x) = \frac{1}{\sqrt{x - 1} - 3}$

8) The opposite table shows the values of f , g
use the table to find

$(g \circ f)(3)$, $(g \circ f)(7)$,
 $(f \circ g)(9)$, $(g \circ f)(5)$

x	3	5	7	9
$f(x)$	5	7	9	3
$g(x)$	7	9	3	5



9) If $f(x) = 5x + 3$, $g(x) = \sqrt{25 - x^2}$, then find $(f \circ g)(3)$, $(g \circ f)(0)$

10) If $f(x) = 2x + 7$, $g(x) = \frac{x-7}{2}$, then find $(f \circ g)(x)$, $(g \circ f)(x)$ then find $(f \circ g)(3)$, $(g \circ f)(3)$

11) Find (if possible) the result of each of the following operations:

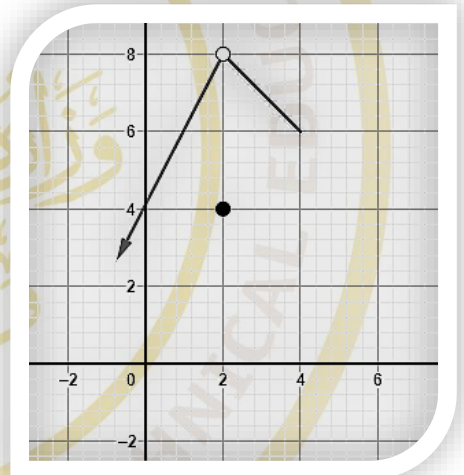
- a) $(-7) + \infty$ b) $(-7) \times \infty$ c) $0 \times (-\infty)$ d) $6 \div 0$

12) If the opposite figure represents

the graphical representation of

the function f , then find:

$$f(2) , f(0) , \lim_{x \rightarrow 2} f(x)$$

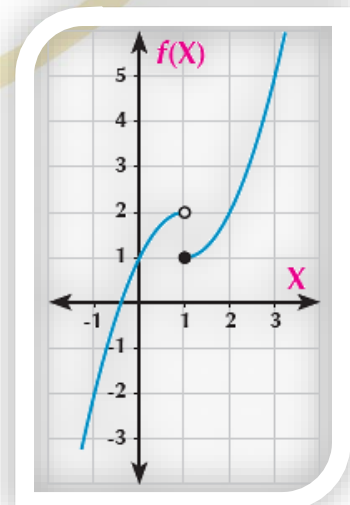


13) If the opposite figure represents

the graphical representation of

the function f , then find:

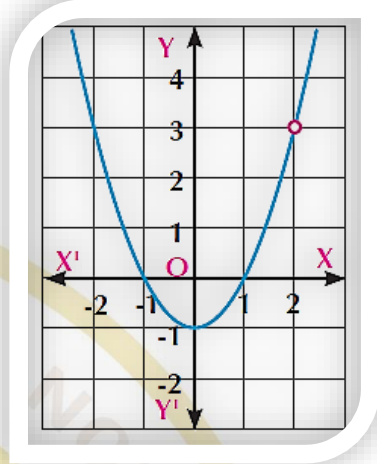
$$f(1) , f(0) , \lim_{x \rightarrow 1} f(x)$$





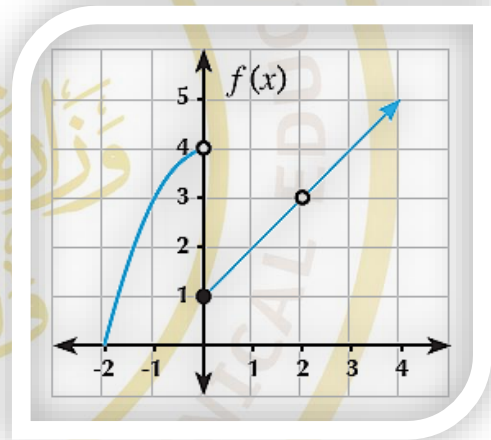
14) If the opposite figure represents
the graphical representation of
the function f , then find:

$$f(-1), f(0), f(2), \lim_{x \rightarrow 2} f(x)$$



15) If the opposite figure represents
the graphical representation of
the function f , then find:

$$f(-1), f(0), f(2), \lim_{x \rightarrow 2} f(x)$$





رياضيات بحتة لغات - الصف الثانى الثانوى - علمي - التقييمات الأسبوعية - الأسبوع الثانى

The First Group

1) Determine the domain of the function $f: f(x) = \frac{1}{\sqrt{2-x}}$

2) Determine the domain of the function $f: f(x) = \begin{cases} 4x + 1 & , \quad x < 1 \\ x^2 - 3 & , \quad x > 1 \end{cases}$

Then find if possible $f(2)$, $f(-1)$, $f(1)$

3) If $f(x) = 5x + 4$, $g(x) = \sqrt{25 - x^2}$, then find
 $(f \circ g)(4)$, $(g \circ f)(0)$

4) Find (if possible) the result of each of the following operations:

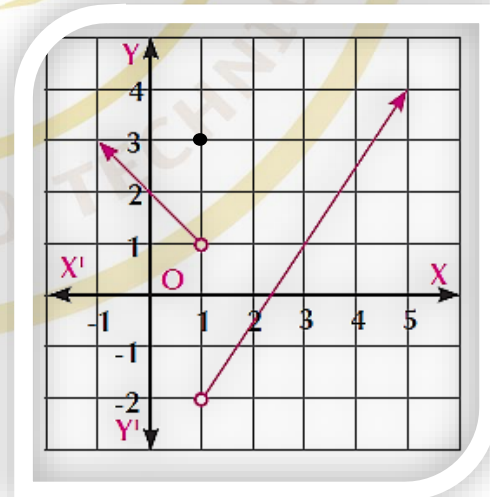
a) $(-7) + \infty$ b) $(-7) \times \infty$ c) $0 \times (-\infty)$ d) $6 \div 0$

5) If the opposite figure represents

the graphical representation of

the function f , then find:

$f(1)$, $f(0)$, $\lim_{x \rightarrow 1} f(x)$





The Second Group

1) Determine the domain of the function : $f(x) = \frac{1}{\sqrt{2+x}}$

2) Determine the domain of the function : $f(x) = \begin{cases} x^3 + 1 & , \quad x < 0 \\ -3x & , \quad x > 0 \end{cases}$

Then find if possible $f(0)$, $f(1)$, $f(-1)$

3) If $f(x) = 3x + 6$, $g(x) = \sqrt{100 - x^2}$, then find
 $(f \circ g)(8)$, $(g \circ f)(0)$

4) Find (if possible) the result of each of the following operations:

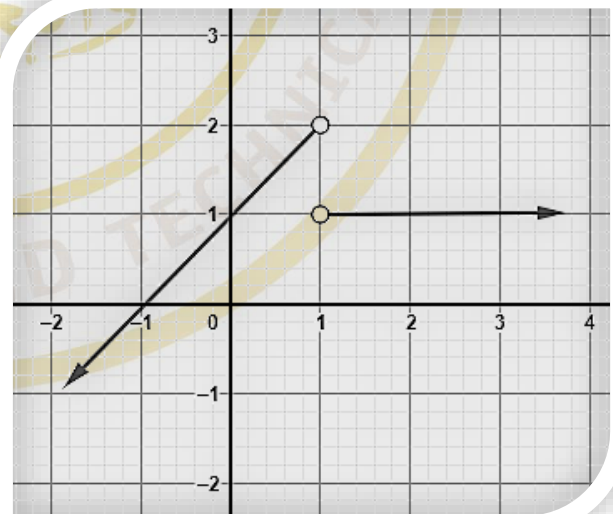
a) $3 + \infty$ b) $0 \times \infty$ c) $(-6) \times (-\infty)$ d) $0 \div 1$

5) If the opposite figure represents

the graphical representation of

the function f , then find:

$f(1)$, $f(0)$, $\lim_{x \rightarrow 1} f(x)$





The Third Group

1) Determine the domain of the function : $f(x) = \frac{1}{\sqrt{7x-14}}$

2) Determine the domain of the function : $f(x) = \begin{cases} x^4 - 8 & , \quad x < 0 \\ 7 - 3x & , \quad x > 0 \end{cases}$

Then find if possible $f(0)$, $f(1)$, $f(-1)$

3) If $f(x) = 4x + 8$, $g(x) = \sqrt{100 - x^2}$, then find
 $(f \circ g)(6)$, $(g \circ f)(0)$

4) Find (if possible) the result of each of the following operations:

a) $3 - \infty$ b) $2 \times \infty$ c) $1000 + (-\infty)$ d) $0 \div 0$

5) If the opposite figure represents

the graphical representation of

the function f , then find:

$f(2)$, $f(0)$, $\lim_{x \rightarrow 2} f(x)$

