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
د/ هالة عبد السلام خفاجى

إشراف علمي
مستشار الرياضيات
أ/ منال عزقول

أداءات وتقييمات لمنهج الرياضيات العامة لغات
للصف الثانى الثانوي "أدبـــى"
الفصل الدراسى الأول
للعام الدراسي 2025 / 2026

الأسبوع الثانى

إعداد
أ/ محمد عبد العاطى

مراجعة
أ/ محمود السيد

ترجمة
أ/ السيد أحمد

مراجعة الترجمة
أ/ شريف البرهامى

الرياضيات العامة - للصف الثاني الثانوي (القسم الأدبي) باللغة الانجليزية - الأداء الصفي - الأسبوع الثاني

1) In $\triangle$ ABC , if $2\,m(\angle A) = m(\angle C) = 80°$ and $a = 8\ cm$,then find b.

2) In $\triangle$ ABC , if $\sin A : \sin B : \sin C = 2 : 3 : 4$ and $a + b = 15\ cm$,then find c.

3) In $\triangle$ ABC , if $\frac{3\sin A}{5} = \frac{\sin B}{3} = \frac{\sin C}{4}$,then find $a : b : c$

4) In $\triangle$ ABC , if $3 \sin B = 4 \sin C$ and $b = 12\ cm$,then find c.

5) In $\triangle$ ABC , if $2 \sin A = \sin C$ and $a + c = 9\ cm$,then find a.

6) In $\triangle$ ABC , if $\sin A + \sin B + \sin C = 2.5$ and $a = 3 \sin A$,then find the perimeter of $\triangle$ ABC.

7) Determine the domain of the function f:

$$f(x) = \begin{cases} x + 1 & when\ x < 0 \\ 1 & when\ x \geq 0 \end{cases}$$

Graph the curve of the function, from the graph deduce the range of the function f.

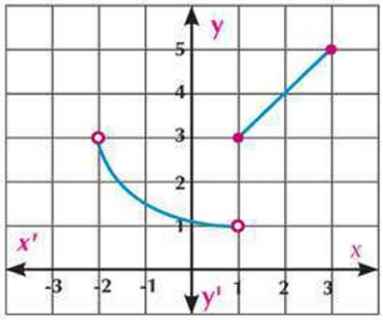
8) Determine the domain of the function f:

$$f(x) = \begin{cases} 2x + 3 & when\ -2 \leq x < 1 \\ 6 - x & when\ 1 \leq x < 3 \end{cases}$$

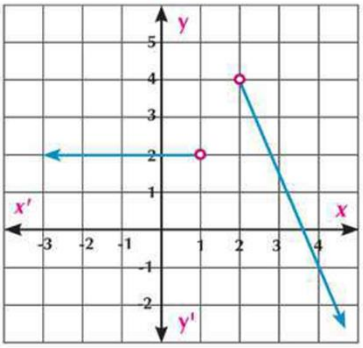
Graph the curve of the function, from the graph deduce the range of the function f.

9) If $f: X \to R$ and $X = \{1,2,-2,-3\}$,
then find the range of the function **f**
where $f(x) = 5x - 3$

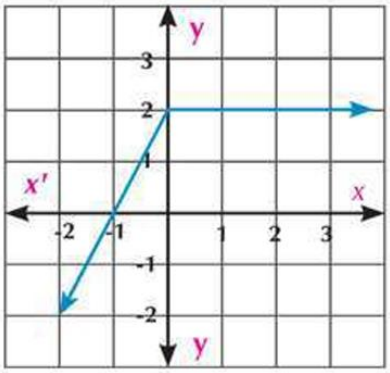
10) From the opposite graph that represents the curve of the function f:
-Determine the domain and the range of f.
-Investigate the monotony of f.



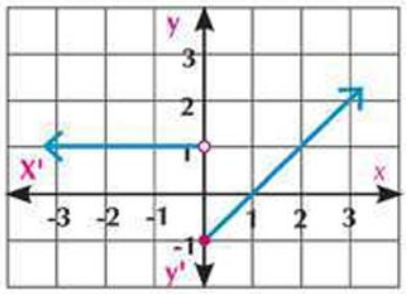
11) From the opposite graph that represents the curve of the function f:
-Determine the domain and the range of f.
-Investigate the monotony of f.



12) From the opposite graph that represents the curve of the function f:
-Determine the domain and the range of f.
-Investigate the monotony of f.



13) From the opposite graph find:

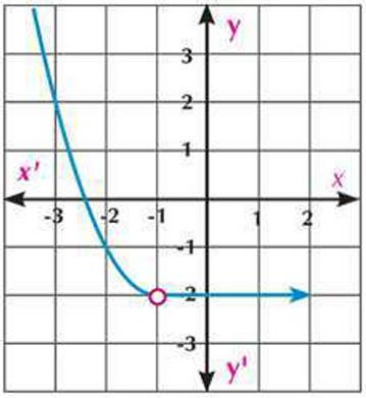


(a) $f(1)$

(b) $f(0)$

(c) $\lim_{x\to 0} f(x)$

14) From the opposite graph find:

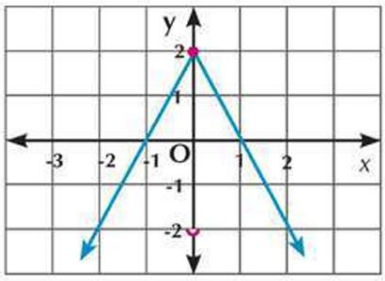


(a) $f(-1)$

(b) $f(2)$

(c) $\lim_{x\to -1} f(x)$

15) From the opposite graph find:



(a) $f(2)$

(b) $f(0)$

(c) $\lim_{x\to 2} f(x)$

الرياضيات العامة - للصف الثاني الثانوي (القسم الأدبي) باللغة الانجليزية - الأداء المنزلى - الأسبوع الثاني

1) In $\triangle$ ABC , if $3\, m(\angle A) = m(\angle C) = 75°$ and $c = 10\ cm$,then find a.

2) In $\triangle$ ABC , if $\sin A : \sin B : \sin C = 3 : 4 : 6$ and $a + c = 18\ cm$,then find c.

3) In $\triangle$ ABC , if $\frac{\sin A}{5} = \frac{\sin B}{4} = \frac{2 \sin C}{7}$,then find $a : b : c$.

4) In $\triangle$ ABC , if $3 \sin A = 5 \sin B$ and $a = 20\ cm$,then find b.

5) In $\triangle$ ABC , if $3 \sin A = \sin C$ and $a + c = 12\ cm$,then find c.

6) In $\triangle$ ABC , if $\sin A + \sin B + \sin C = 2.5$ and $b = 4 \sin B$,then find the perimeter of $\triangle$ ABC.

7) Determine the domain of the function $\boldsymbol{f}$:

$$f(x) = \begin{cases} x + 2 & when\ x < 1 \\ 3 & when\ x \geq 1 \end{cases}$$

Graph the curve of the function, from the graph deduce the range of the function $\boldsymbol{f}$.

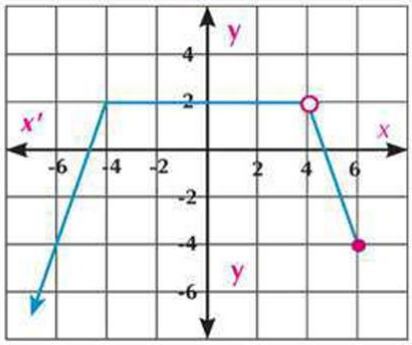
8) Determine the domain of the function $\boldsymbol{f}$:

$$f(x) = \begin{cases} 2x + 1 & when\ -3 \leq x < 2 \\ 7 - x & when\ 2 \leq x < 6 \end{cases}$$

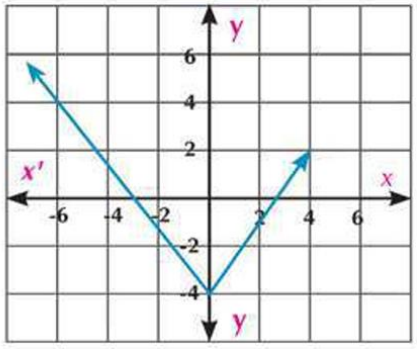
Graph the curve of the function, from the graph deduce the range of the function $\boldsymbol{f}$.

9) If $f: X \to R$ and $X = \{0,1,3,5\}$, then find the domain of the function **f** where $f(x) = 3x + 1$

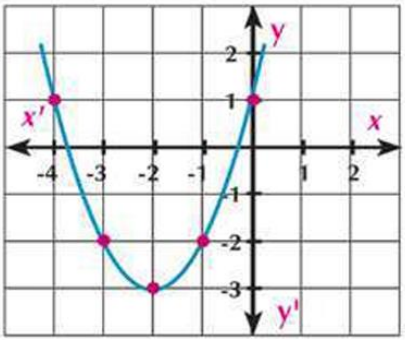
10) From the opposite graph that represents the curve of the function f:
-Determine the domain and the range of f.
-Investigate the monotony of f.



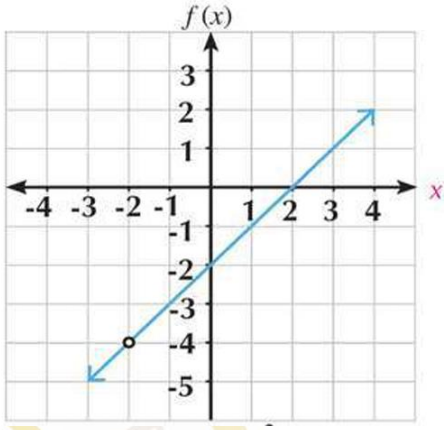
11) From the opposite graph that represents the curve of the function f:
-Determine the domain and the range of f.
-Investigate the monotony of f.



12) From the opposite graph that represents the curve of the function f:
-Determine the domain and the range of f.
-Investigate the monotony of f.



13) From the opposite graph find:

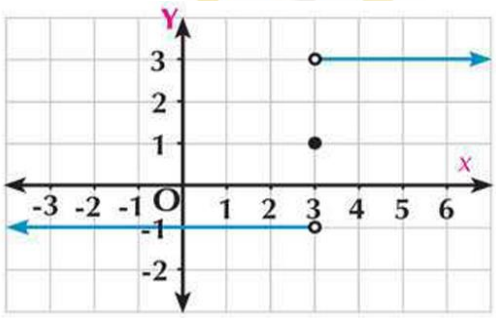


(a) $f(-2)$

(b) $f(2)$

(c) $\lim_{x\to -2} f(x)$

14) From the opposite graph find:

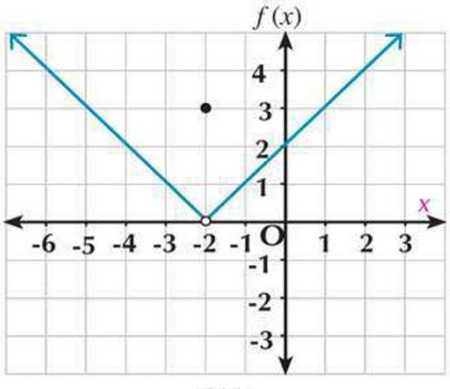


(a) $f(3)$

(b) $f(0)$

(c) $\lim_{x\to 3} f(x)$

15) From the opposite graph find:



(a) $f(-2)$

(b) $f(0)$

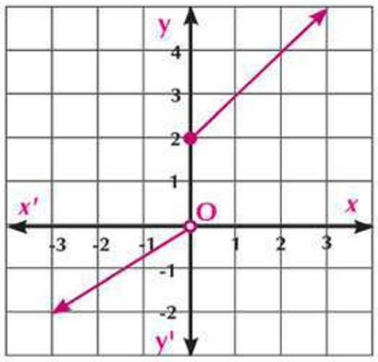
(c) $\lim_{x\to -2} f(x)$

First Group

1) Determine the domain of the function f:

$$f(x) = \begin{cases} x + 2 & when\ x < 0 \\ 2 & when\ x \geq 0 \end{cases}$$

2) From the opposite graph that represents the curve of the function f:



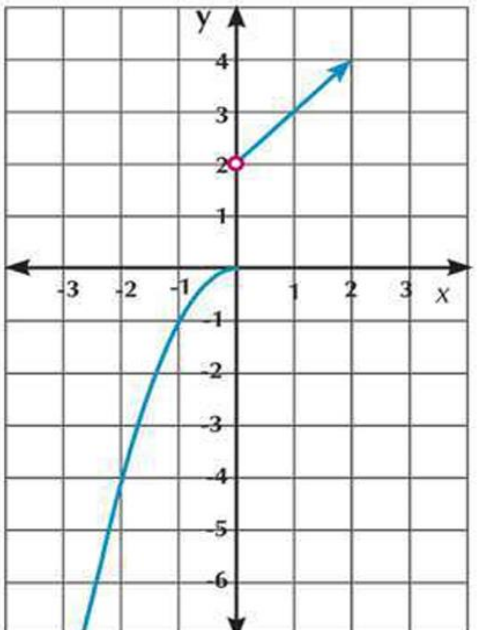
(a)Determine the domain and the range of f.

(b)Investigate the monotony of f.

3) In $\triangle$ ABC , if $\mathrm{m}(\angle \mathrm{A}) = 4\ \mathrm{m}(\angle \mathrm{C}) = 60°$ and $\mathrm{a} = 10$ cm ,then find c.

4) In $\triangle$ ABC , if $\sin A + \sin B + \sin C = 2.5$ and $c = 6\ \sin C$,then find the perimeter of $\triangle$ ABC.

5) From the opposite graph find:



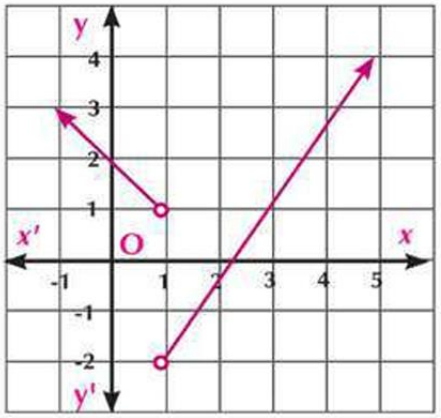
(a) $\mathrm{f}(0)$

(b) $\lim_{x \to 0} f(x)$

Second Group

1) If $g: \{1,2,3,4,5\} \to Z$, then find the range of the function g where $g(x) = 4x - 3$

2) From the opposite graph that represents the curve of the function f:



(a)Determine the domain and the range of f.

(b)Investigate the monotony of f.

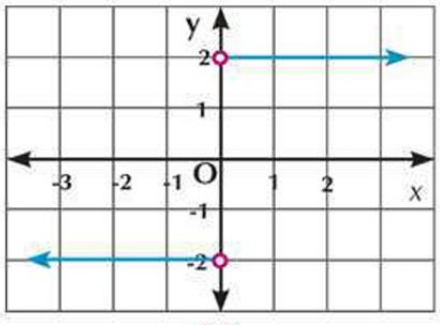
3) In $\triangle$ ABC , if $\sin A : \sin B : \sin C = 2 : 4 : 5$ and $a + b = 12$ cm ,then find c.

4) In $\triangle$ ABC , if $2 \sin A = \sin C$ and $a + c = 6\ cm$,then find a.

5) From the opposite graph find:

(a) $f(0)$

(b) $\lim_{x \to 0} f(x)$

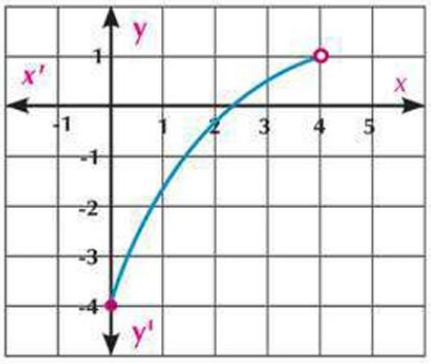


Third Group

1) Determine the domain of the function $\boldsymbol{f}$:

$$f(x) = \begin{cases} x + 1 & when\ -2 \leq x < 1 \\ 3 - x & when\ 1 \leq x < 5 \end{cases}$$

2) From the opposite graph that represents the curve of the function f:



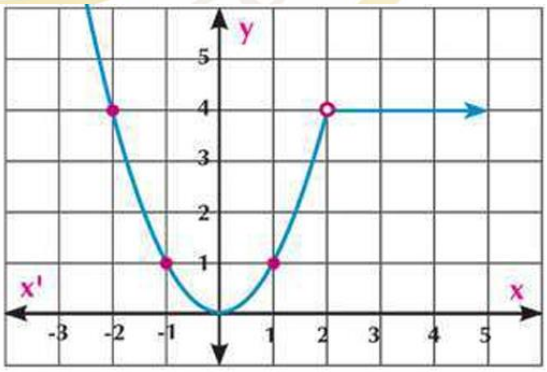
(a) Determine the domain and the range of f.

(b) Investigate the monotony of f.

3) In $\triangle$ ABC , if $\frac{\sin A}{3} = \frac{\sin B}{6} = \frac{\sin C}{7}$, then find a: b: c

4) In $\triangle$ ABC , if $2 \sin A = 7 \sin B$ and $b = 10\ cm$, then find a.

5) From the opposite graph find:



(a) f(2)

(b) $\lim_{x \to 2} f(x)$