



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

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

ونوجيهات رئيس الإدارة المركزية للتعليم العام
د / هالة عبد السلام خفاجى

إشراف علمي
مسنشار الرياضيات
أ / منال عزقول

إدعاءات ونقييمات لمنهج الرياضيات العامة لفات

للصف الثانى الثانوي "إدبى"
الفصل الدراسى الأول
للعام الدراسى ٢٠٢٦ / ٢٠٢٧

الأسبوع الثانى

إعداد **أ / محمد عبد العاطى**
مراجعة **أ / محمود السيد**

ترجمة
أ / السيد أحمد

مراجعة الترجمة
أ / شريف البرهامى
أ / عمرو فاروق

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

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

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

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

4) Determine the domain of the function f :

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

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

5) If $f: X \rightarrow \mathbb{R}$ and $X = \{1, 2, -2, -3\}$,

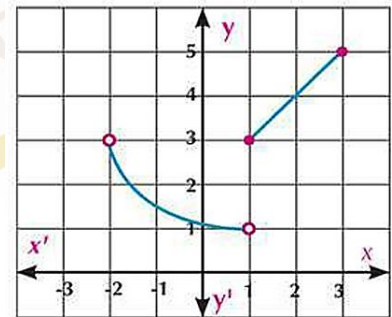
then find the range of the function f

where $f(x) = 5x - 3$

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

-Determine the domain and the range of f .

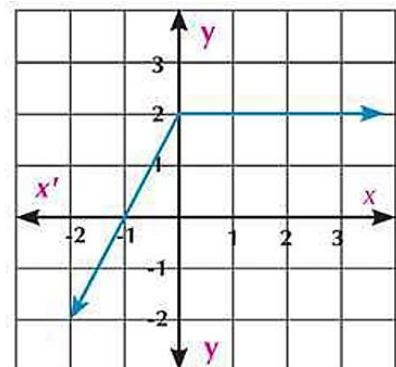
-Investigate the monotony of f .



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

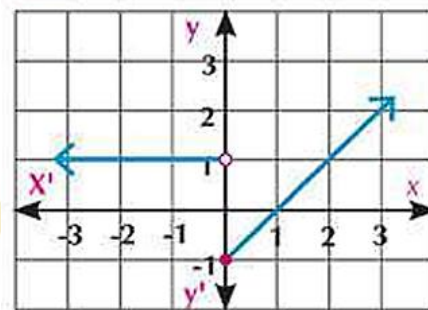
-Determine the domain and the range of f .

-Investigate the monotony of f .



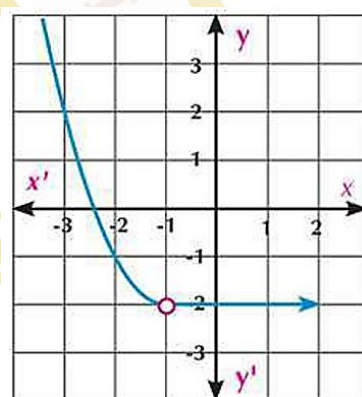
8) From the opposite graph find:

- (a) $f(1)$
- (b) $f(0)$
- (c) $\lim_{x \rightarrow 0} f(x)$



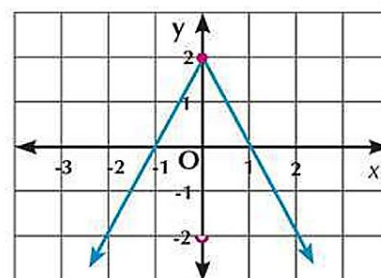
9) From the opposite graph find:

- (a) $f(-1)$
- (b) $f(2)$
- (c) $\lim_{x \rightarrow -1} f(x)$



10) From the opposite graph find:

- (a) $f(2)$
- (b) $f(0)$
- (c) $\lim_{x \rightarrow 2} f(x)$



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

1) In ΔABC , if $3m(\angle A) = m(\angle C) = 75^\circ$ and $c = 10\text{ cm}$, then find a .

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

3) In ΔABC , if $3\sin A = 5\sin B$ and $a = 20\text{ cm}$, then find b .

4) Determine the domain of the function f :

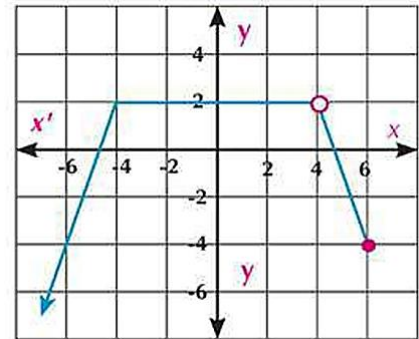
$$f(x) = \begin{cases} 2x + 1 & \text{when } -3 \leq x < 2 \\ 7 - x & \text{when } 2 \leq x < 6 \end{cases}$$

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

6) From the opposite graph that represents

the curve of the function f :

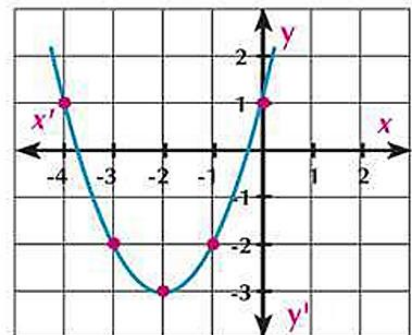
- Determine the domain and the range of f .
- Investigate the monotony of f .



7) 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 .

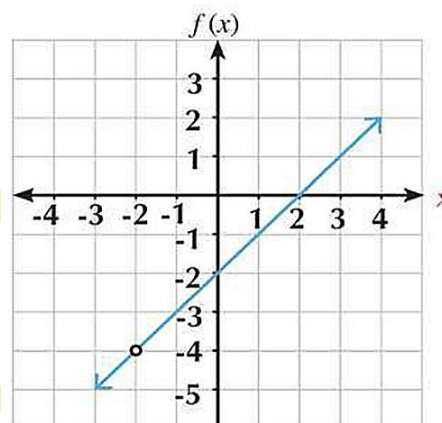


8) From the opposite graph find:

(a) $f(-2)$

(b) $f(2)$

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

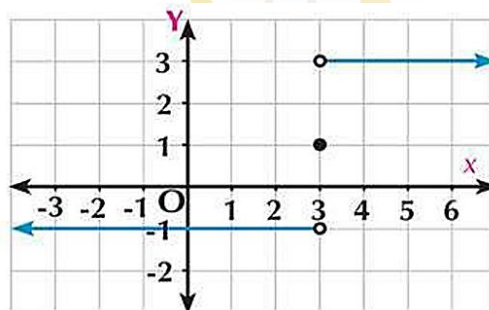


9) From the opposite graph find:

(a) $f(3)$

(b) $f(0)$

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

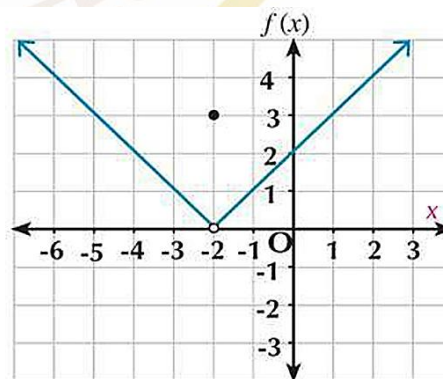


10) From the opposite graph find:

(a) $f(-2)$

(b) $f(0)$

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



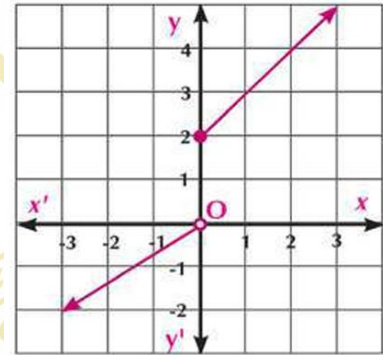
الرياضيات العامة - للصف الثاني الثانوي (القسم الأدبي) باللغة الانجليزية – التقييمات الأسبوعية - الأسبوع الثاني

First Group

- 1) Determine the domain of the function f :

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

- 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 .

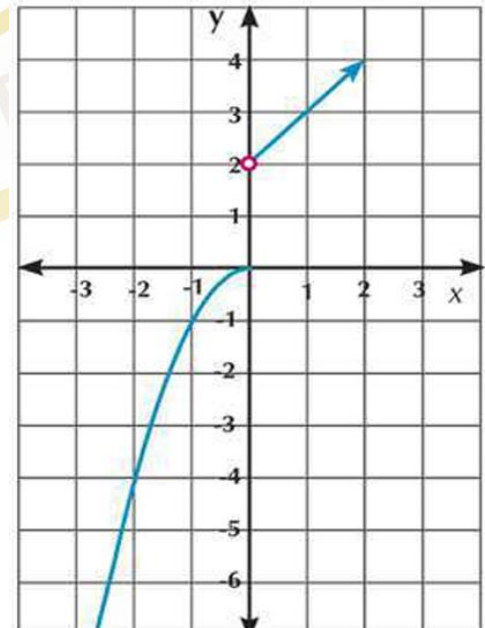
- 3) In $\triangle ABC$, if $m(\angle A) = 4 m(\angle C) = 60^\circ$ and $a = 10$ cm, then find c .

- 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) $f(0)$

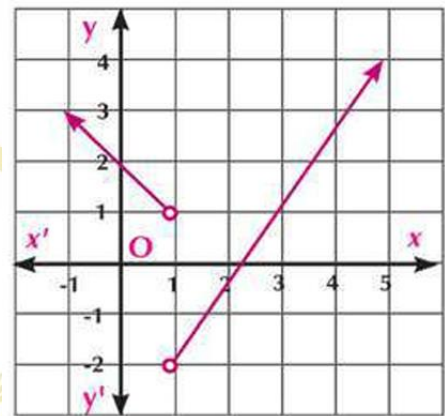
- (b) $\lim_{x \rightarrow 0} f(x)$



Second Group

1) If $g: \{1,2,3,4,5\} \rightarrow \mathbb{Z}$, 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 .



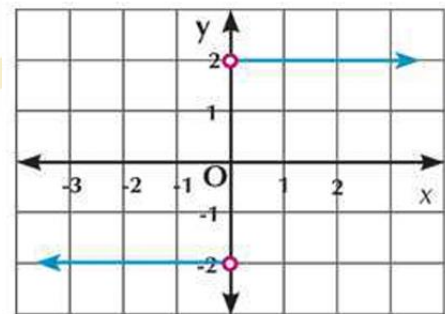
3) In $\triangle ABC$, if $\sin A : \sin B : \sin C = 2 : 4 : 5$ and $a + b = 12$ cm, then find c .

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



Third Group

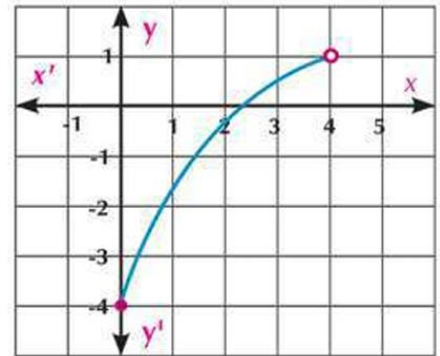
1) Determine the domain of the function f :

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

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 $b = 10 \text{ cm}$, then find a .

5) From the opposite graph find:

(a) $f(2)$

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

