

شكراً لتحميلك هذا الملف من موقع المناهج الإماراتية



almanahj.com/ae

موقع  
المناهج  
الإماراتية



## نموذج أسئلة اختبار وفق الهيكل الوزاري

موقع المناهج ← المناهج الإماراتية ← الصف الثاني عشر العام ← رياضيات ← الفصل الأول ← الملف

## التواصل الاجتماعي بحسب الصف الثاني عشر العام



## روابط مواد الصف الثاني عشر العام على تلغرام

[الرياضيات](#)

[اللغة الانجليزية](#)

[اللغة العربية](#)

[ال التربية الإسلامية](#)

## المزيد من الملفات بحسب الصف الثاني عشر العام والمادة رياضيات في الفصل الأول

[أوراق عمل درس تحليل التمثيلات البيانية للدوال وال العلاقات من الوحدة الأولى](#)

1

[أوراق عمل الدرس الأول الدوال من الوحدة الأولى](#)

2

[حل أسئلة الامتحان النهائي - منهج بريدج](#)

3

[حل أسئلة امتحان وفق الهيكل الوزاري](#)

4

[مراجعة عامة وفق الهيكل الوزاري](#)

5

# هيكل الاختبار

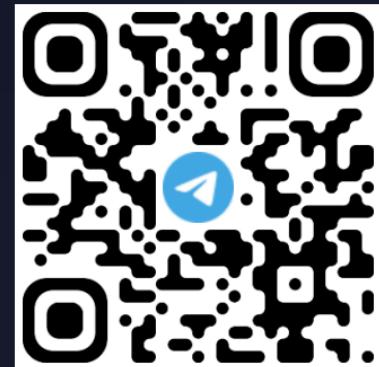
1

البرنامـج العـلـيـز

12 General

MATH 2022-2023

MR - AHMED ATA



الصفحة الرسمية



<https://t.me/ahmedatamath>



0566010255 - 0502070147

1

if  $g(x) = 2x^2 + 18x - 14$

Find  $g(9)$

a) 300 AHMED ATA

b) 310 AHMED ATA

c) 219 AHMED ATA

d) 132 AHMED ATA

AHMED ATA



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2

if  $g(x) = 2x^2 + 18x - 14$

Find  $g(3x)$

a)  $18x^2 + 54x - 14$

b)  $18x^2 - 54x - 14$

c)  $18x^2 + 54x + 14$

d)  $9x^2 + 54x - 14$

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3

if  $h(y) = -3y^3 - 6y + 9$  Find  $h(4)$

a) 300

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c) - 207

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b) 310

AHMED ATA

d) 207

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4

if  $h(y) = -3y^3 - 6y + 9$  Find  $h(-2y)$

a)  $-24y^2 + 12y + 9$

c)  $12y^2 + 24y + 9$

b)  $24y^2 + 12y$

d)  $24y^2 + 12y + 9$

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5

if  $f(t) = \frac{4t + 11}{3t^2 + 5t + 1}$  Find  $f(-6)$

a)  $-\frac{13}{79}$

b)  $\frac{13}{79}$

c)  $\frac{79}{13}$

d)  $-\frac{79}{13}$

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6

if  $f(t) = \frac{4t + 11}{3t^2 + 5t + 1}$

Find  $f(4t)$ 

a)  $\frac{16t + 11}{48t^2 + 20t + 1}$

c)  $\frac{t + 11}{48t^2 + 20t + 1}$

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b)  $\frac{16t - 11}{48t^2 + 20t + 1}$

d)  $\frac{16t + 11}{t^2 + 20t + 1}$

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7

if 
$$g(x) = \frac{3x^3}{x^2 + x - 4}$$

Find  $g(-2)$

a) 12

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b) -0.8  
AHMED ATA

AHML

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AHMED ATA



c) 20

d) 3

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8

if  $h(x) = 16 - \frac{12}{2x + 3}$

Find  $h(-3)$

a) 12

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c) 20

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b) -0.8

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d) 3

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9

if  $f(x) = -7 + \frac{6x+1}{x}$  Find  $f(5)$

a) 12

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b) -0.8

AHMED ATA

c) 20

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d) 3

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10

if  $g(m) = 3 + \sqrt{m^2 - 4}$

Find  $g(3m)$

DATA

a)  $9 + \sqrt{m^2 - 4}$

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c)  $\sqrt{9m^2 + 4}$

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d)  $3 - \sqrt{9m^2 - 4}$

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11

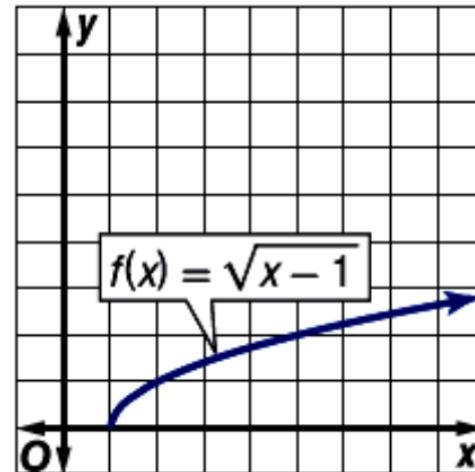
Use the graph of each function to find its  $y$ -intercept and zero(s).

a)  $y$  - intercept Non zeros  $x = 1$

b)  $y$  - intercept  $y = 0$  , zeros  $x = 1$

c)  $y$  - intercept  $y = 0$  , zeros  $x = -1, 0, 1.5$

d)  $y$  - intercept  $y = 1$  , zeros  $x = 1.5$



12

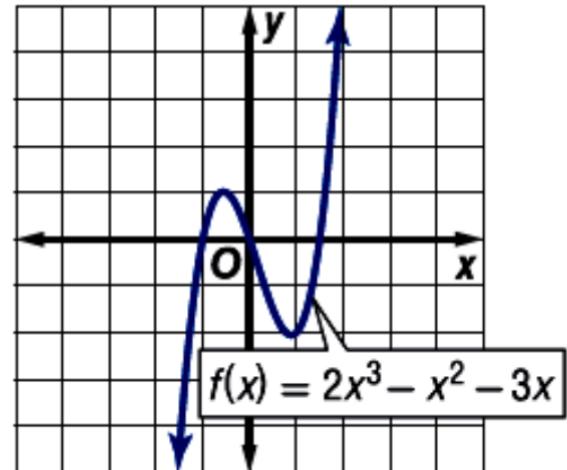
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a)  $y$  - intercept Non zeros  $x = 1$

b)  $y$  - intercept  $y = 0$ , zeros  $x = 1$

c)  $y$  - intercept  $y = 0$ , zeros  $x = -1, 0, 1.5$

d)  $y$  - intercept  $y = 1$ , zeros  $x = 1.5$



13

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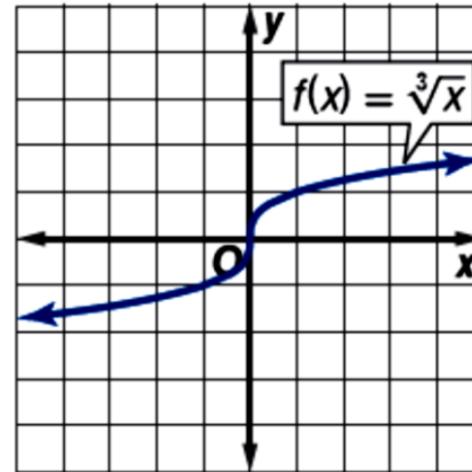
Use the graph of each function to find its  $y$ -intercept and zero(s).

a)  $y$  - intercept Non , zeros  $x = 1$

b)  $y$  - intercept  $y = 0$  , zeros  $x = 0$

c)  $y$  - intercept  $y = 0$  , zeros  $x = -1, 0$

d)  $y$  - intercept  $y = 1$ , zeros Non



14

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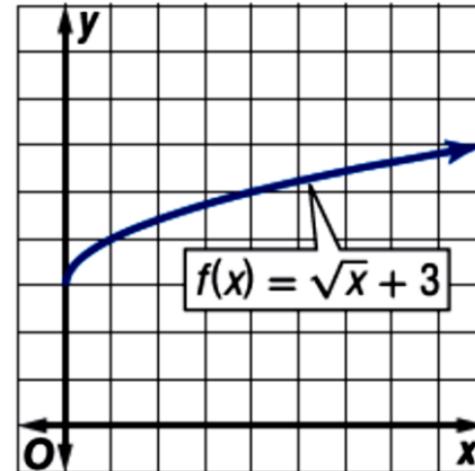
Use the graph of each function to find its  $y$ -intercept and zero(s).

a)  $y$  - intercept Non , zeros  $x = 3$

b)  $y$  - intercept  $y = 0$  , zeros  $x = 1$

c)  $y$  - intercept  $y = 0$  , zeros  $x = 3$

d)  $y$  - intercept  $y = 3$  , zeros  $x$  Non



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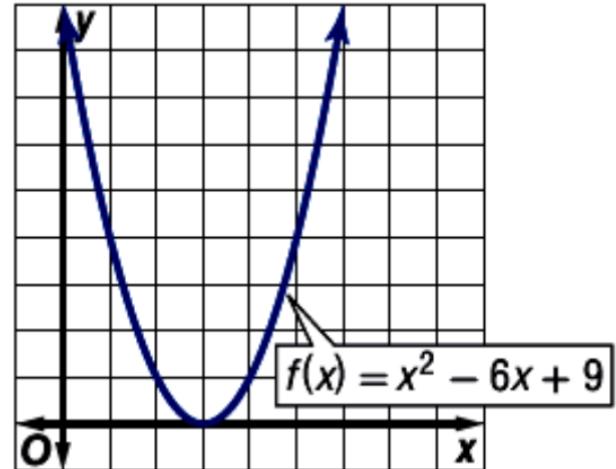
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Use the graph of each function to find its  $y$ -intercept and zero(s).

- a)  $y$  - intercept Non zeros  $x = 3$
- b)  $y$  - intercept  $y = 0$ , zeros  $x = 1$
- c)  $y$  - intercept  $y = 9$ , zeros  $x = 3$
- d)  $y$  - intercept  $y = 9$ , zeros  $x = -3$



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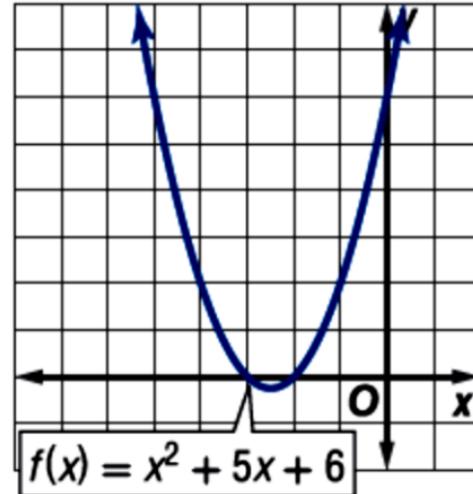
Use the graph of each function to find its  $y$ -intercept and zero(s).

a)  $y$  - intercept Non , zeros  $x = 3$

b)  $y$  - intercept  $y = 6$  , zeros  $x = -3, -2$

c)  $y$  - intercept  $y = 6$  , zeros  $x = -2, -1$

d)  $y$  - intercept  $y = 6$  , zeros  $x = -3, 2$



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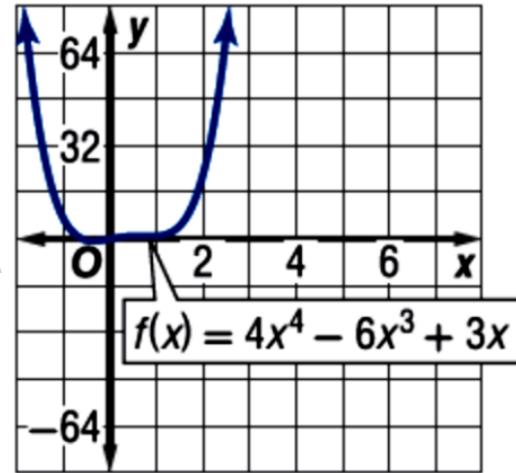
Use the graph of each function to describe its end behavior.

a)  $\lim_{x \rightarrow -\infty} f(x) = -\infty$ ,  $\lim_{x \rightarrow \infty} f(x) = \infty$

b)  $\lim_{x \rightarrow -\infty} f(x) = \infty$ ,  $\lim_{x \rightarrow \infty} f(x) = -\infty$

c)  $\lim_{x \rightarrow -\infty} f(x) = -\infty$ ,  $\lim_{x \rightarrow \infty} f(x) = -\infty$

d)  $\lim_{x \rightarrow -\infty} f(x) = \infty$ ,  $\lim_{x \rightarrow \infty} f(x) = \infty$



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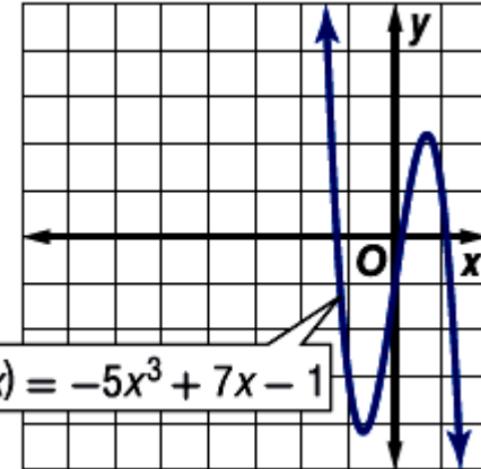
Use the graph of each function to describe its end behavior.

a)  $\lim_{x \rightarrow -\infty} f(x) = -\infty$ ,  $\lim_{x \rightarrow \infty} f(x) = \infty$

b)  $\lim_{x \rightarrow -\infty} f(x) = \infty$ ,  $\lim_{x \rightarrow \infty} f(x) = -\infty$

c)  $\lim_{x \rightarrow -\infty} f(x) = -\infty$ ,  $\lim_{x \rightarrow \infty} f(x) = -\infty$

d)  $\lim_{x \rightarrow -\infty} f(x) = \infty$ ,  $\lim_{x \rightarrow \infty} f(x) = \infty$



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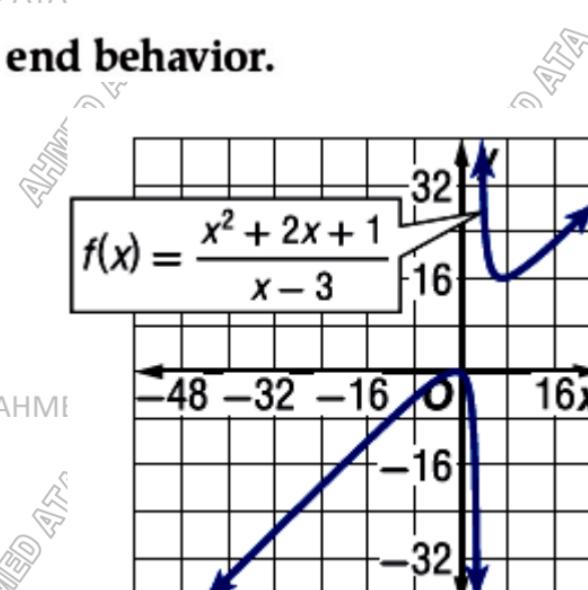
Use the graph of each function to describe its end behavior.

a)  $\lim_{x \rightarrow -\infty} f(x) = -\infty$ ,  $\lim_{x \rightarrow \infty} f(x) = \infty$

b)  $\lim_{x \rightarrow -\infty} f(x) = \infty$ ,  $\lim_{x \rightarrow \infty} f(x) = -\infty$

c)  $\lim_{x \rightarrow -\infty} f(x) = -\infty$ ,  $\lim_{x \rightarrow \infty} f(x) = -\infty$

d)  $\lim_{x \rightarrow -\infty} f(x) = \infty$ ,  $\lim_{x \rightarrow \infty} f(x) = \infty$



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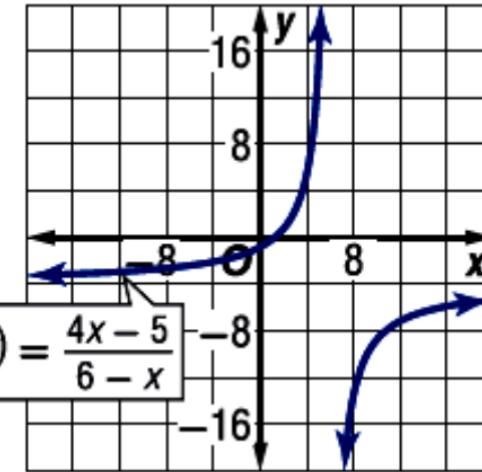
Use the graph of each function to describe its end behavior.

a)  $\lim_{x \rightarrow -\infty} f(x) = 0$ ,  $\lim_{x \rightarrow \infty} f(x) = \infty$

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

c)  $\lim_{x \rightarrow -\infty} f(x) = -4$ ,  $\lim_{x \rightarrow \infty} f(x) = -4$

d)  $\lim_{x \rightarrow -\infty} f(x) = 3$ ,  $\lim_{x \rightarrow \infty} f(x) = 2$



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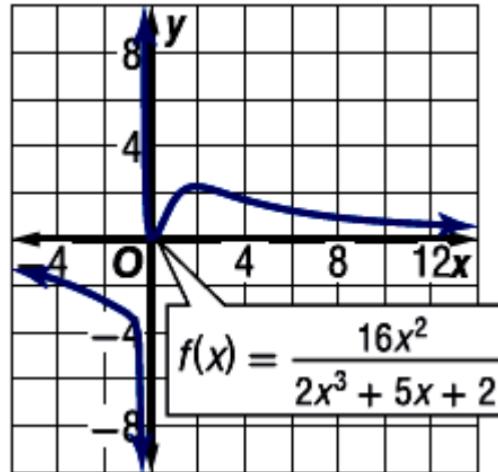
Use the graph of each function to describe its end behavior.

a)  $\lim_{x \rightarrow -\infty} f(x) = -\infty$ ,  $\lim_{x \rightarrow \infty} f(x) = \infty$

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

c)  $\lim_{x \rightarrow -\infty} f(x) = -\infty$ ,  $\lim_{x \rightarrow \infty} f(x) = -\infty$

d)  $\lim_{x \rightarrow -\infty} f(x) = \infty$ ,  $\lim_{x \rightarrow \infty} f(x) = \infty$



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22

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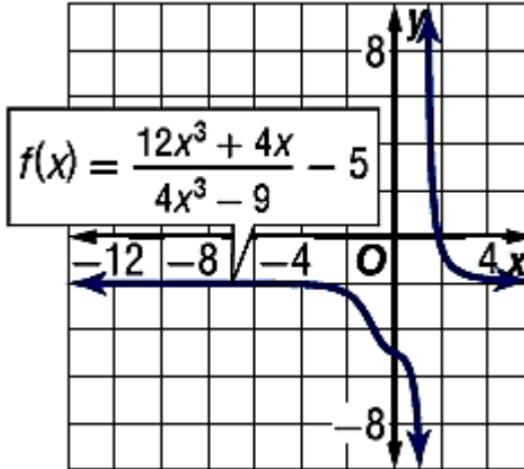
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b)  $\lim_{x \rightarrow -\infty} f(x) = 0$ ,  $\lim_{x \rightarrow \infty} f(x) = 0$

c)  $\lim_{x \rightarrow -\infty} f(x) = -\infty$ ,  $\lim_{x \rightarrow \infty} f(x) = -\infty$

d)  $\lim_{x \rightarrow -\infty} f(x) = \infty$ ,  $\lim_{x \rightarrow \infty} f(x) = \infty$



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23

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Find the average rate of change of each function on the given interval.

$$g(x) = -4x^2 + 3x - 4; [-1, 3]$$

a) - 5 AHMED ATA

b) 28 AHMED ATA

c) 140 AHMED ATA

d) - 16 AHMED ATA

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24

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Find the average rate of change of each function on the given interval.

$$g(x) = 3x^2 - 8x + 2; [4, 8]$$

a) - 5

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b) 28

c) 140

d) - 16

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Find the average rate of change of each function on the given interval.

$$f(x) = 3x^3 - 2x^2 + 6; [2, 6]$$

a) - 5

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b) 28

c) 140

d) - 16

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Find the average rate of change of each function on the given interval.

a) - 5

$$f(x) = -2x^3 - 4x^2 + 2x - 8; [-2, 3]$$

b) 28

c) 140

d) - 16

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27

Find the average rate of change of each function on the given interval.

$$f(x) = 3x^4 - 2x^2 + 6x - 1; [5, 9]$$

a) 472

b) - 2550

c) - 309

d) 4430

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28

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Find the average rate of change of each function on the given interval.

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$$f(x) = \frac{x - 3}{x}; [5, 12]$$

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a) 47.2

b) -0.45

c) 0.05

d) 4.2

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29

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Find the average rate of change of each function on the given interval.

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$$f(x) = \frac{x+5}{x-4}; [-6, 2]$$

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- a) 47.2
- b) -0.45

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- c) 0.05
- d) 4.2

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30

Find  $f \circ g$ .  $f(x) = \frac{1}{x+1}$   $g(x) = x^2 - 4$

a)  $[f \circ g](x) = \frac{1}{x^2 - 3}$  for  $x \neq \pm\sqrt{3}$

b)  $[f \circ g](x) = \frac{2}{x^2 + 3}$

c)  $[f \circ g](x) = |x|$

d)  $[f \circ g](x) = x - 6$  for  $x \geq -3$

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31

Find  $f \circ g$ .  $f(x) = \frac{2}{x-3}$   $g(x) = x^2 + 6$

a)  $[f \circ g](x) = \frac{1}{x^2 - 3}$  for  $x \neq \pm\sqrt{3}$

b)  $[f \circ g](x) = \frac{2}{x^2 + 3}$

c)  $[f \circ g](x) = |x|$

d)  $[f \circ g](x) = x - 6$  for  $x \geq -3$

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32

Find  $f \circ g$ .  $f(x) = \sqrt{x + 4}$   $g(x) = x^2 - 4$

a)  $[f \circ g](x) = \frac{1}{x^2 - 3}$  for  $x \neq \pm\sqrt{3}$

b)  $[f \circ g](x) = \frac{2}{x^2 + 3}$

c)  $[f \circ g](x) = |x|$

d)  $[f \circ g](x) = x - 6$  for  $x \geq -3$

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33

Find  $f \circ g$ .  $f(x) = x^2 - 9$      $g(x) = \sqrt{x + 3}$

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a)  $[f \circ g](x) = \frac{1}{x^2 - 3}$  for  $x \neq \pm\sqrt{3}$

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b)  $[f \circ g](x) = \frac{2}{x^2 + 3}$

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ATA

AHMED ATA

c)  $[f \circ g](x) = |x|$

d)  $[f \circ g](x) = x - 6$  for  $x \geq -3$

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34

Find  $f \circ g$ .  $f(x) = \frac{5}{x}$        $g(x) = \sqrt{6 - x}$

a)  $[f \circ g](x) = \frac{5\sqrt{6-x}}{6-x}$  for  $x < 6$

b)  $[f \circ g](x) = \frac{-4\sqrt{x+8}}{x+8}$  for  $x > -8$

c)  $[f \circ g](x) = |x + 2|$

d)  $[f \circ g](x) = \sqrt{x^2 + 6}$

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35

Find  $f \circ g$ .  $f(x) = \sqrt{x - 2}$        $g(x) = x^2 + 8$

a)  $[f \circ g](x) = \frac{5\sqrt{6-x}}{6-x}$  for  $x < 6$

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b)  $[f \circ g](x) = \frac{-4\sqrt{x+8}}{x+8}$  for  $x > -8$

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c)  $[f \circ g](x) = |x + 2|$

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d)  $[f \circ g](x) = \sqrt{x^2 + 6}$

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36

Find  $f \circ g$ .  $f(x) = \sqrt{x + 5}$   $g(x) = x^2 + 4x - 1$

a)  $[f \circ g](x) = \frac{5\sqrt{6-x}}{6-x}$  for  $x < 6$

b)  $[f \circ g](x) = \frac{-4\sqrt{x+8}}{x+8}$  for  $x > -8$

c)  $[f \circ g](x) = |x + 2|$

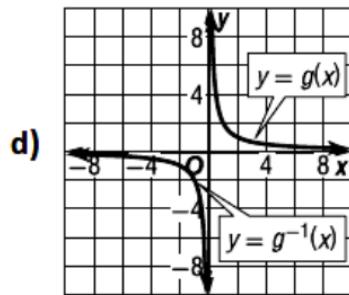
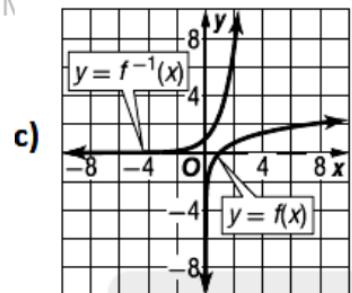
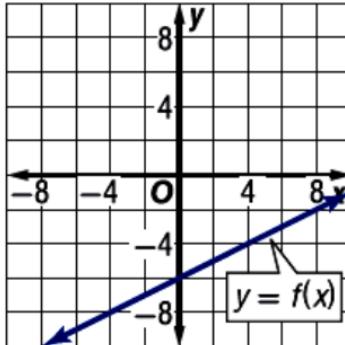
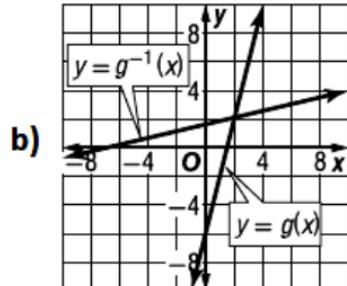
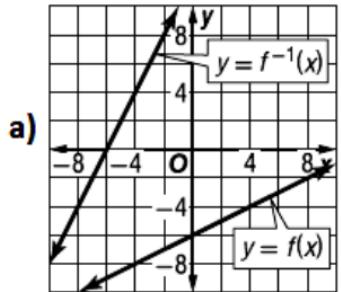
d)  $[f \circ g](x) = \sqrt{x^2 + 6}$

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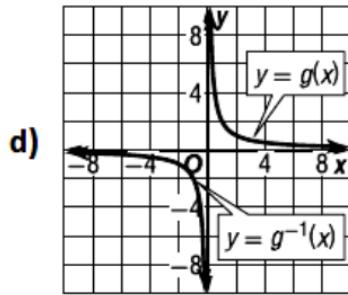
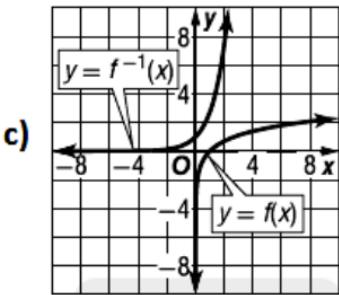
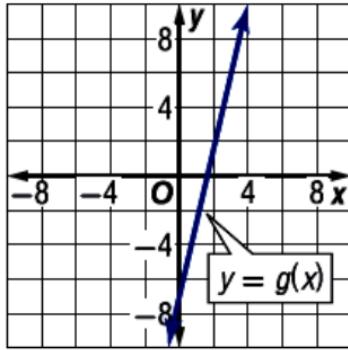
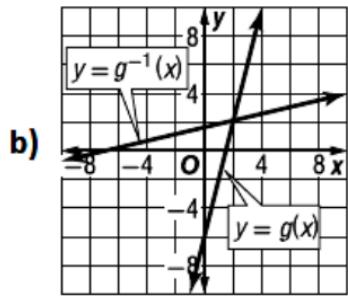
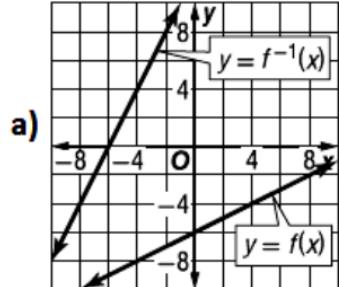


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Use the graph of each function to graph its inverse function.

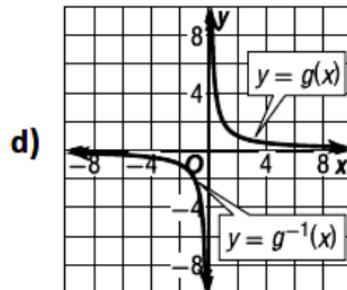
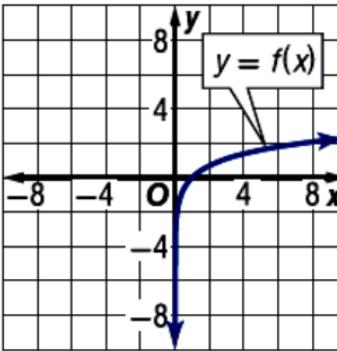
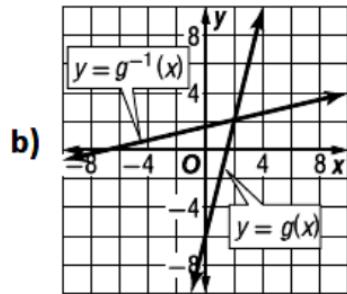
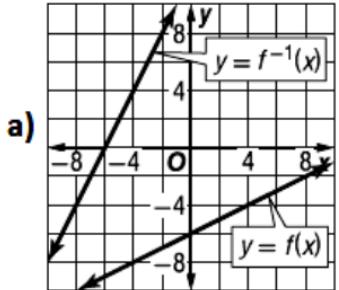


Use the graph of each function to graph its inverse function.



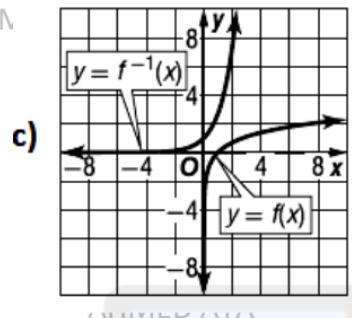
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Use the graph of each function to graph its inverse function.



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Use the graph of each function to graph its inverse function.

