

اختبر نفسك (1)
Check yourself (1)

Mathematics الرياضيات

11 ADVANCED الصف الحادي عشر متقدم

REVEAL

الفصل الأول T1

According to the previous exam

مراجعة الدرس الأول رسم الدوال الاسية
من الوحدة الخامسة اعتمادا على
الاختبارات السابقة

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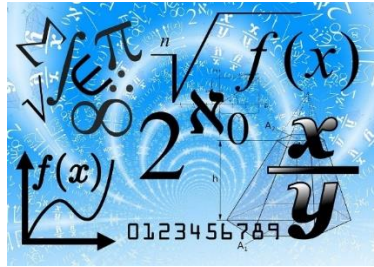
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Lesson (5-1)

Graphing Exponential Functions

2024-2023

الأستاذ عماد عودة



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الأستاذ عماد عودة

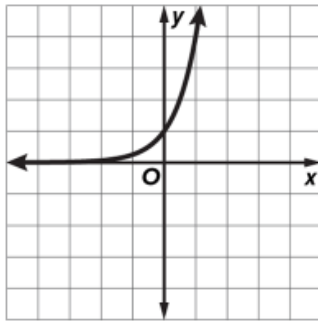
<https://t.me/+XPfMBpsQpVxjNzNk> <http://www.youtube.com/@imaths2022>

Q1 Which of the following represent the graph of

س1 أي مما يلي التمثيل البيان ل

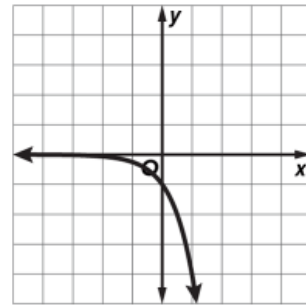
$$f(x) = 4^x$$

a)



IMAD ODEH

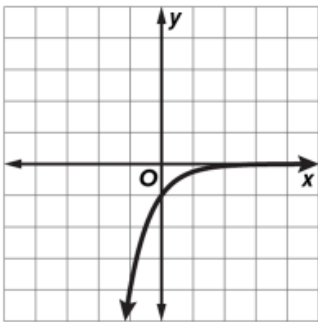
b)



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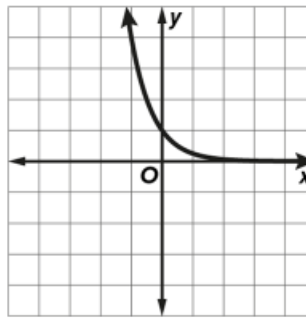
c)



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IMAD ODEH

d)



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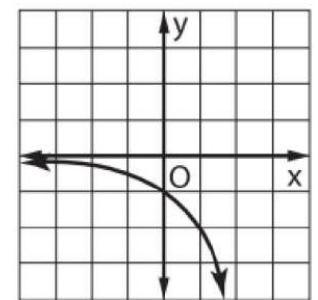
IMAD ODEH

Q2 Which of the following represent the graph of

س1 أي مما يلي التمثيل البيان ل

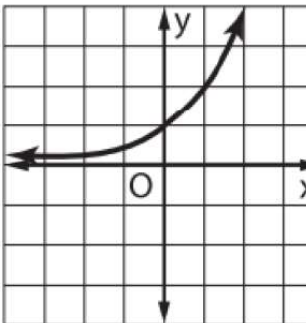
$$f(x) = 2^x$$

a)



IMAD ODEH

b)

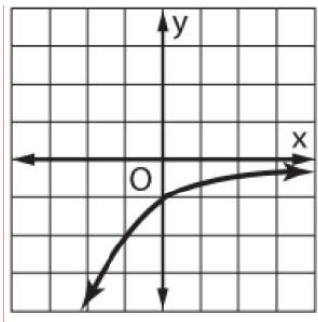


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IMAD ODEH

IMAD ODEH

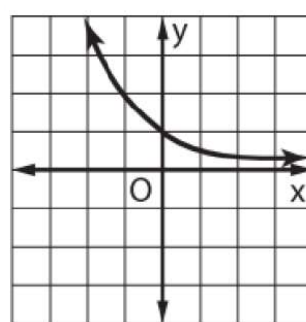
c)



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IMAD ODEH

d)



IMAD ODEH

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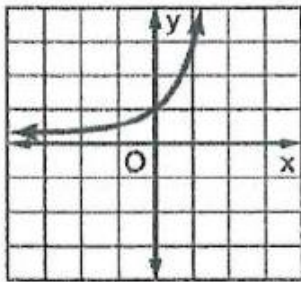
<https://t.me/+XPfMBpsQpVxjNzNk> <http://www.youtube.com/@imaths2022>

Q3 Which of the following represent the graph of

س3 أي مما يلي التمثيل البيان ل

$$f(x) = \left(\frac{1}{3}\right)^x$$

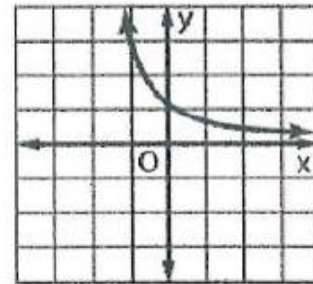
IMAD ODEH
a)



IMAD ODEH
b)

IMAD ODEH

IMAD ODEH



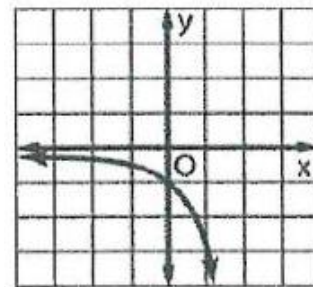
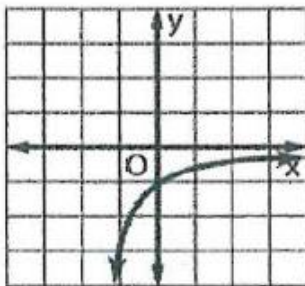
IMAD ODEH
c)

IMAD ODEH

IMAD ODEH
d)

IMAD ODEH

IMAD ODEH



IMAD ODEH

IMAD ODEH

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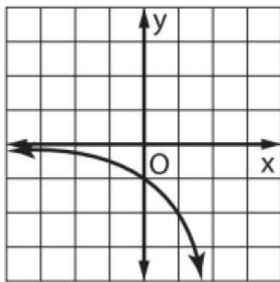
IMAD ODEH

Q4 Which of the following represent the graph of

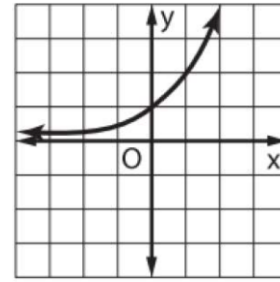
س4 أي مما يلي التمثيل البيان ل

$$f(x) = -2^{-x}$$

a)



b)



IMAD ODEH

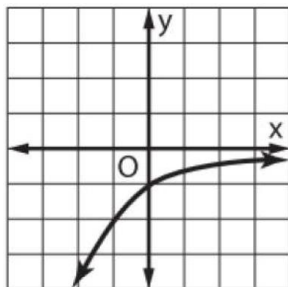
IMAD ODEH

IMAD ODEH

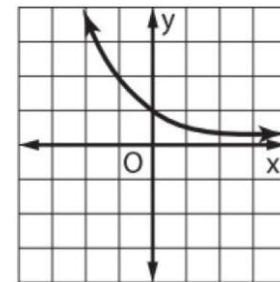
IMAD ODEH

IMAD ODEH

c)



d)



IMAD ODEH

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<https://t.me/+XPfMBpsQpVxjNzNk> <http://www.youtube.com/@imaths2022>

Q5 Which of the following represent the graph of

س5 أي مما يلي التمثيل البيان ل

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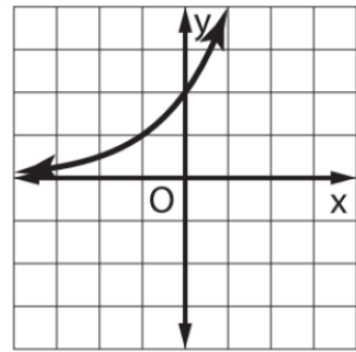
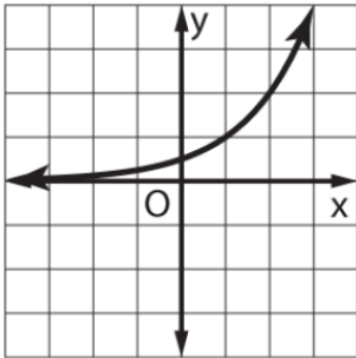
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IMAD ODEH

$$f(x) = 2^{x-1}$$

a)



IMAD ODEH

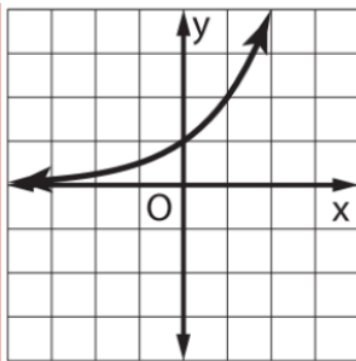
IMAD ODEH

IMAD ODEH

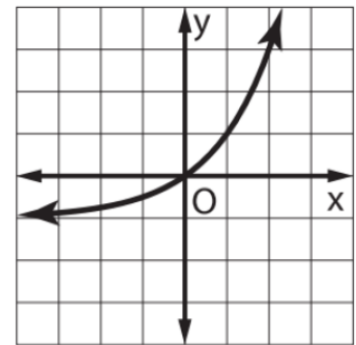
IMAD ODEH

IMAD ODEH

c)



d)



IMAD ODEH

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IMAD ODEH

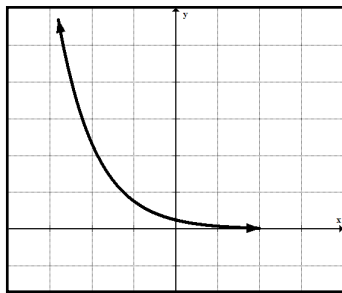
IMAD ODEH

Q6 Which of the following represent the graph of

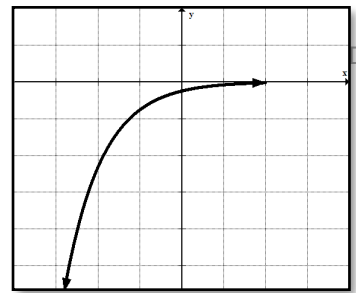
س6 أي مما يلي التمثيل البيان ل

$$f(x) = -\frac{5}{4} \left(\frac{4}{5}\right)^{x+4} + 2$$

a)

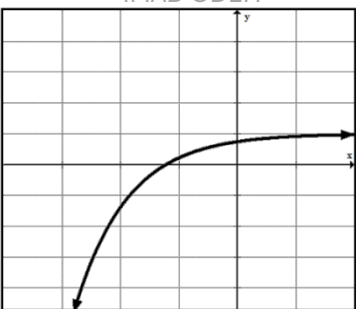


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IMAD ODEH

c)



d)



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Q7 Which is the range of the function

س7 أي مما يلي مدى الدالة

$$g(x) = -6^x ?$$

a) $(-\infty, \infty)$

b) $(0, \infty)$

IMAD ODEH

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IMAD ODEH

IMAD ODEH

c) $(-\infty, 1]$

d) $(-\infty, 0)$

Q8 Which is the range of the function

س8 أي مما يلي مدى الدالة

$$g(x) = 3^{x-2} + 5 ?$$

a) $(-\infty, \infty)$

b) $(5, \infty)$

IMAD ODEH

IMAD ODEH

IMAD ODEH

IMAD ODEH

IMAD ODEH

c) $(-\infty, 5]$

d) $(-\infty, 2)$

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IMAD ODEH

IMAD ODEH

IMAD ODEH

IMAD ODEH

Q9 Determine the equation of the function $f(x)$ after being translated 4 units left and 3 units down

س9 حدد معادلة الدالة $f(x)$ بعد ازاحتها بمقدار 4 وحدات نحو اليسار و3 وحدات الى الأسفل

$$f(x) = 5^x$$

a) $f(x) = 5^{x-4} - 3$

b) $f(x) = 5^{x-3} - 4$

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IMAD ODEH

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c) $f(x) = 5^{x+3} - 4$

d) $f(x) = 5^{x+4} - 3$

Q10 Determine the equation of the function $f(x)$ after being translated 3 units right and 2 units down

س10 حدد معادلة الدالة $f(x)$ بعد ازاحتها بمقدار 3 وحدات نحو اليمين و2 وحدة الى الأسفل

$$f(x) = 3^x$$

a) $f(x) = 3^{x-2} - 3$

b) $f(x) = 3^{x-3} - 2$

IMAD ODEH

IMAD ODEH

IMAD ODEH

IMAD ODEH

IMAD ODEH

c) $f(x) = 3^{x+2} - 3$

d) $f(x) = 3^{x+3} - 2$

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<https://t.me/+XPfMBpsQpVxjNzNk> <http://www.youtube.com/@imaths2022>

Q11 Write an exponential function that passes through the given points

$$(-1, -4), (0, -2)$$

a) $y = \frac{1}{2}(-2)^x$

b) $y = -2\left(\frac{1}{2}\right)^x$

c) $y = -2(2)^x$

d) $y = -2\left(\frac{1}{4}\right)^x$

Q12 Identify the value of k and write a function $g(x)$ for the graph as it relates to $f(x)$

س12 حدد قيمة k واكتب الدالة $g(x)$ والتي تمثيلها البياني كما يلي والذي يرتبط بالدالة $f(x)$ حيث

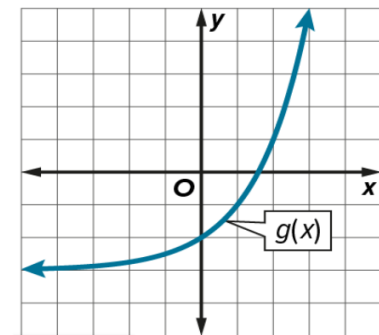
$$f(x) = 2^x, \quad g(x) = f(x) + k$$

a) $k = 3$ and $g(x) = 2^x + 3$

b) $k = 2$ and $g(x) = 2^x + 2$

c) $k = -3$ and $g(x) = 2^x - 3$

d) $k = -2$ and $g(x) = 2^x - 2$



Q13 Identify the value of k and write a function $g(x)$ for the graph as it relates to $f(x)$

س13 حدد قيمة k واكتب الدالة $g(x)$ والتي تمثيلها البياني كما يلي والذي يرتبط بالدالة $f(x)$ حيث

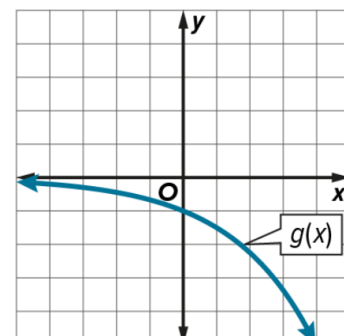
$$f(x) = \left(\frac{3}{2}\right)^x, \quad g(x) = kf(x)$$

a) $k = -1$ and $g(x) = \left(\frac{3}{2}\right)^x - 1$

b) $k = -2$ and $g(x) = -2\left(\frac{3}{2}\right)^x$

c) $k = -\frac{1}{2}$ and $g(x) = -\frac{1}{2}\left(\frac{3}{2}\right)^x$

d) $k = -1$ and $g(x) = -\left(\frac{3}{2}\right)^x$



Q14 Identify the value of k for the graph

س14 حدد قيمة k للرسم البياني

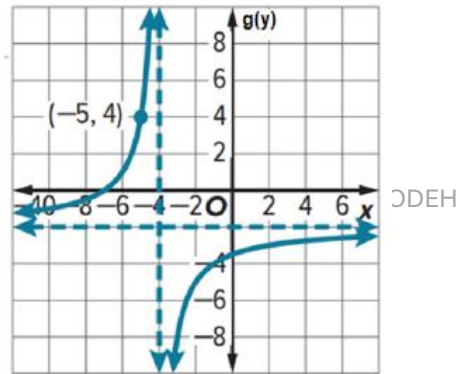
$$g(x) = \frac{1}{x-h} + k$$

a) $g(x) = \frac{-6}{x+2} - 4$

b) $g(x) = \frac{-6}{x+4} - 2$

c) $g(x) = \frac{6}{x+4} - 2$

d) $g(x) = \frac{-4}{x+2} - 6$



Q15 Identify the function that represent exponential decay

س15 حدد الدالة التي لتمثيل تضائل اسي

a) $g(x) = \left(\frac{2}{3}\right)^x$

b) $g(x) = \left(\frac{3}{2}\right)^x$

c) $g(x) = 3^x$

d) $g(x) = 2^x$

Q16 Identify the function that represent exponential decay

س16 حدد الدالة التي لتمثيل تضائل اسي

a) $g(x) = x^2 + 1$

b) $g(x) = \left(\frac{1}{2}\right)^x$

c) $g(x) = 3^x$

d) $g(x) = 4^x + 1$

Q17 Identify the function that represent exponential Growth

a)

$$g(x) = 3(0.7)^x$$

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IMAD ODEH

b)

$$g(x) = \frac{1}{2} \left(\frac{1}{2}\right)^x$$

c)

$$g(x) = 2 \left(\frac{1}{3}\right)^x$$

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d)

$$g(x) = 4 \left(\frac{3}{2}\right)^x$$

Q18 Write an exponential function with a graph that passes through the given points.

س18

$$\left(0, \frac{1}{3}\right), (3, 9)$$

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