

التوقعات الذهبية وفق الهيكل الوزاري الجديد منهج ريفيل



تم تحميل هذا الملف من موقع المناهج الإماراتية

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

تاريخ إضافة الملف على موقع المناهج: 2025-11-22 19:15:14

ملفات اكتب للمعلم اكتب للطالب | اختبارات الكترونية | اختبارات | حلول | عروض بوربوينت | أوراق عمل
منهج انجليزي | ملخصات وتقارير | مذكرات وبنوك | الامتحان النهائي | للمدرس

المزيد من مادة
رياضيات:

إعداد: أحمد عطا

التواصل الاجتماعي بحسب الصف الثاني عشر العام



صفحة المناهج
الإماراتية على
فيسبوك

الرياضيات

اللغة الانجليزية

اللغة العربية

التربية الاسلامية

المواد على تلغرام

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

نموذج أسئلة اختبار تجريبي 3 وفق الهيكل الوزاري باللغتين العربية والانجليزية

1

نموذج أسئلة اختبار تجريبي 1 وفق الهيكل الوزاري باللغتين العربية والانجليزية

2

الأسئلة المتوقعة ليلة الاختبار وفق الهيكل الوزاري الجديد

3

ملخص كامل أسئلة وفق الهيكل الوزاري باللغتين العربية والانجليزية

4

ملخص أسئلة الهيكل الوزاري الجديد مع الأسئلة المتوقعة للاختبار النهائي

5

12 General - Reveal MATH 2025-2026 TERM1



Mr. Ahmed Ata
The Featured Program

GOLDEN EXPECTATIONS

التوقعات الذهبية



Phone 0566010255 - 0502070147

MATH TEACHER

MR /AHMED ATA

Term 1

<https://t.me/ahmedatamath>

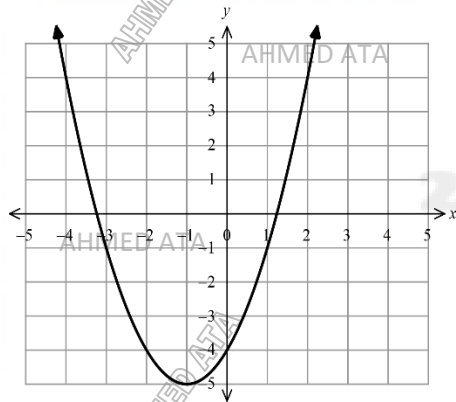


ahatta.math@gmail.com

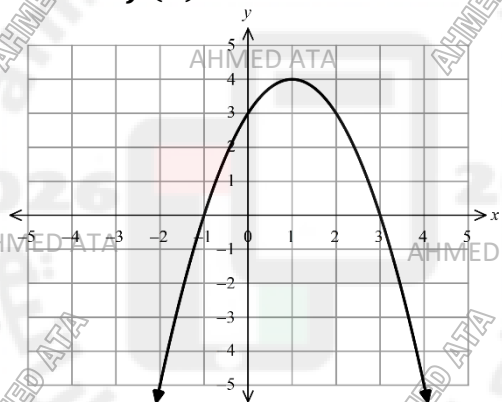
1

Graph each function. Then state the domain and range.

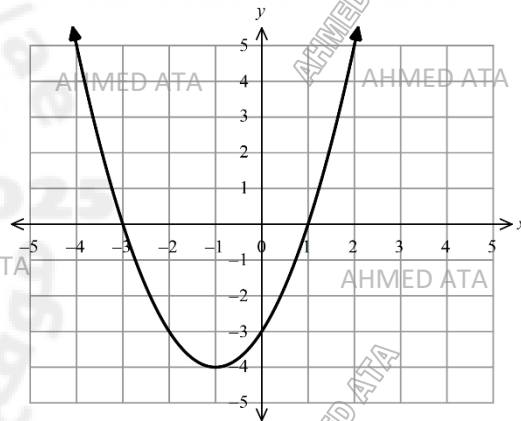
$$f(x) = x^2 + 2x - 3$$



a)



b)



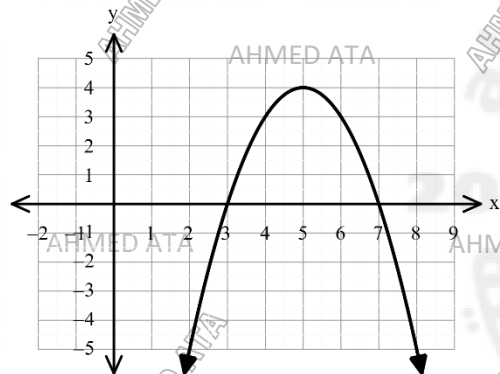
c)



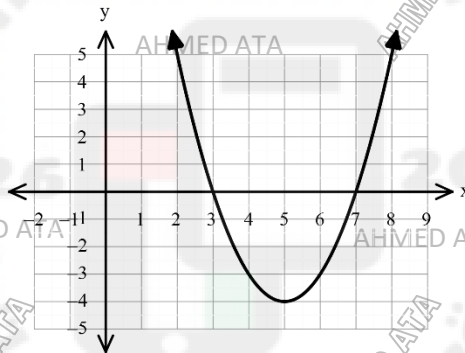
2

Solve each equation by graphing.

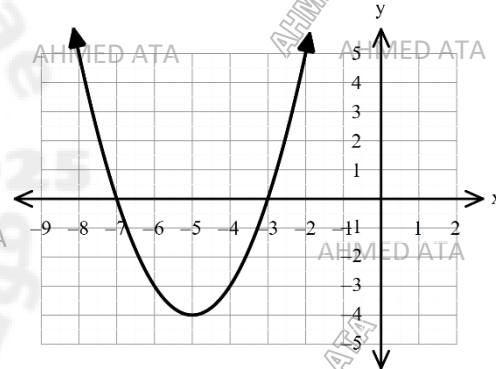
$$x^2 - 10x + 21 = 0$$



a)



b)



c)



3

Solve each equation by factoring. Check your solution.

$$12x^2 - 2x = x$$

a) $3x(4x - 1)$

b) $x(4x - 1)$

c) $3x(4x + 1)$

d) $x(4x + 1)$



4

Find the value of c that makes each trinomial a perfect square. Then write the trinomial as a perfect square trinomial

$$x^2 + 7x + c$$

a) $c = 12.25$, $(x + 3.5)^2$

b) $c = 12.25$, $(x - 3.5)^2$

c) $c = 3.5$, $(x - 3.5)^2$

d) $c = -12.25$, $(x - 3.5)^2$



5

Solve each equation by completing the square.

$$x^2 + 18x - 4 = 0$$

a) $x = -9 - \sqrt{85}$

b) $x = -9 \pm \sqrt{85}$

c) $x = 9 \pm \sqrt{85}$

d) $x = -9 + \sqrt{85}$



6

Find the value of the discrimination for each quadratic equation. Then describe the number and type of roots for the equation.

$$x^2 - 8x + 16 = 0$$

a) *2 real rational roots*

b) *2 real irrational roots*

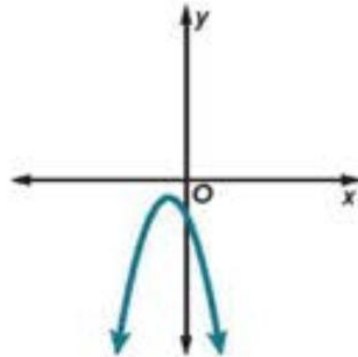
c) *1 real rational roots*

d) *2 complex roots*

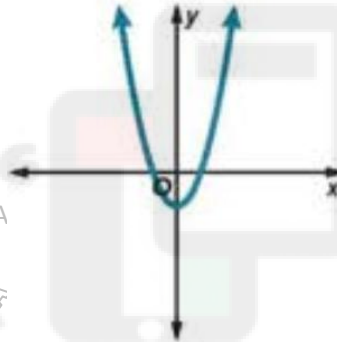


The discriminant of the related equation of each graph. determine the graph

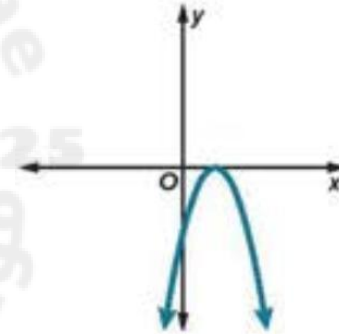
$$b^2 - 4ac < 0$$



a)



b)

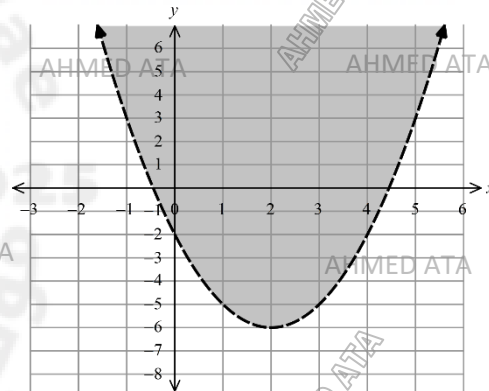
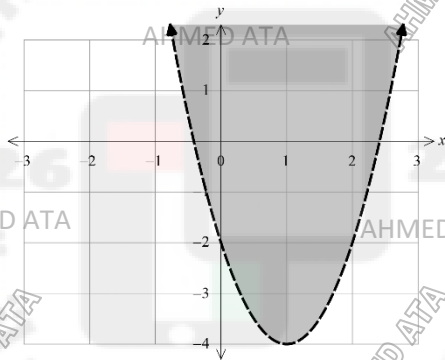
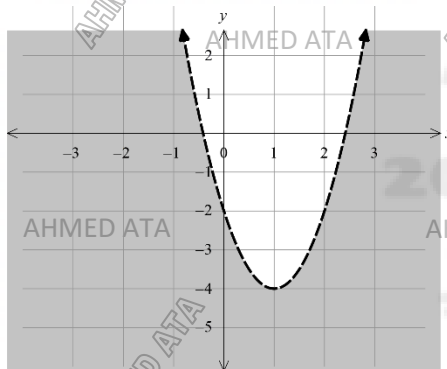


c)



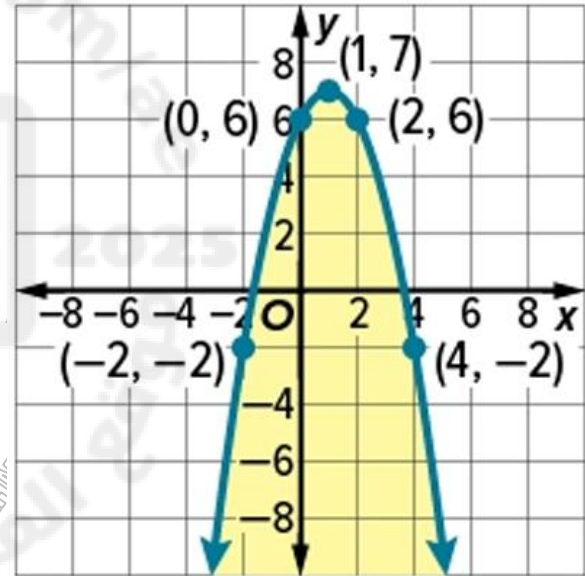
8

Graph $y < 2x^2 - 4x - 2$



Write a quadratic inequality for each graph.

- a) $y < -x^2 + 2x + 6$
- b) $y \leq -x^2 + 2x + 6$
- c) $y > -x^2 + 2x + 6$
- d) $y \geq -x^2 + 2x + 6$



State the degree and leading coefficient of each polynomial in one variable

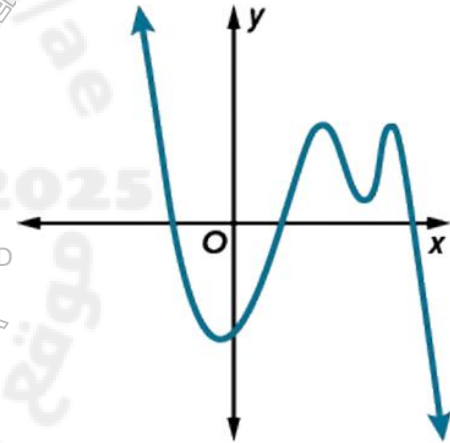
$$f(x) = 2x^4 - 3x^3 - 4x^2 - 5x + 6a$$

- a) *degree 4 , leading coefficient 5*
- b) *degree 2 , leading coefficient 4*
- c) *degree 4 , leading coefficient 3*
- d) *degree 4 , leading coefficient 2*

11

Use the graph to state the number of real zeros of the function.

- a) 3 real zeros
- b) 4 real zeros
- c) 5 real zeros
- d) 6 real zeros



12

Determine the consecutive integer values of x between which each real zero of

$$f(x) = x^4 - 2x^3 - x^2 + 1$$

a) $x = 0$ and $x = 1, x = 2$ and $x = 3$

b) $x = -2$ and $x = -1, x = 2$ and $x = 3$

c) $x = -2$ and $x = -1, x = 1$ and $x = 2$

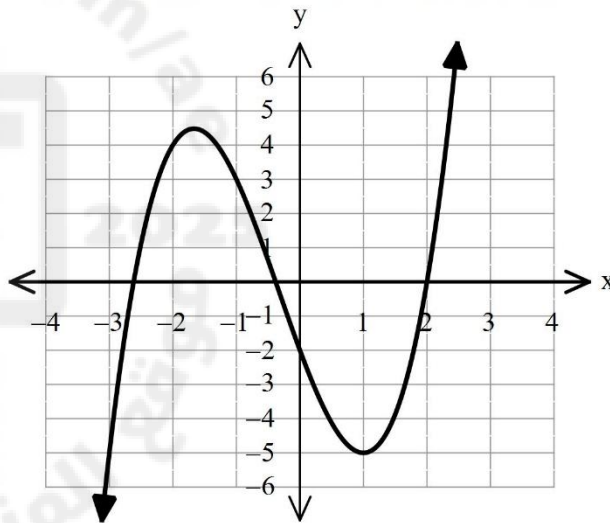
d) $x = -4$ and $x = -3, x = 0$ and $x = 1$



13

Estimate the x-coordinates at which relative maxima and relative minima occur.

- a) *max at $x = -1.5$ and min at $x = 1$*
- b) *max at $x = 1.5$ and min at $x = -1$*
- c) *max at $x = 1$ and min at $x = -1.5$*
- d) *max at $x = -2.5$ and min at $x = 1$*



14

Find

$$(6x^3 + 7x^2 - 2x + 5) + (x^3 - 4x^2 - 8x + 1)$$

a) $7x^3 + 3x^2 - 6x + 10$

b) $7x^3 + 3x^2 - 10x + 6$

c) $2x^5 + 6x^4 - 9x^3 + 10x - 12$

d) $2x^5 + 6x^4 - 9x^3 + 10x - 2$



15

Find

$$(2x^5 + 11x^4 + 7x - 8) - (5x^4 + 9x^3 - 3x + 4)$$

a) $7x^3 + 3x^2 - 6x + 10$

b) $7x^3 + 3x^2 - 10x + 6$

c) $2x^5 + 6x^4 - 9x^3 + 10x - 12$

d) $2x^5 + 6x^4 - 9x^3 + 10x - 2$



16

Multiply.

$$(x - y)(x^2 + 2xy + y^2)$$

a) $x^3 + x^2y - xy^2 - y^3$

b) $x^3 + x^2y + xy^2 + y^3$

c) $x^3 + x^2y - 2xy^2 - y^3$

d) $x^3 + 2x^2y - xy^2 - y^3$



17

Simplify each expression.

$$(24a^4b^3 + 18a^2b^2 + 30ab^3)(6ab)^{-1}$$

a) $4a^3b^2 + 3ab - 5b^2$

b) $4a^3b^2 + 3ab - 6b^2$

c) $4a^3b^2 + 3ab + 5b^2$

d) $6a^3b^2 + 3ab - 5b^2$



18

Simplify by using long division.

$$(x^2 - 5x - 36) \div (x + 4)$$

a) $x - 6$

b) $x + 9$

c) $x - 9$

d) $x + 8$

Q14

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19

Simplify by using long division.

$$\frac{3z^3 - 14z^2 - 7z + 3}{z - 5}$$

a) $3z^2 + z - 2 - \frac{7}{z - 5}$

b) $3z^2 + z - 2 + \frac{7}{z - 5}$

c) $3z^2 + z - 2 - \frac{3}{z - 5}$

d) $3z^2 + z - 2 - \frac{1}{z - 5}$



Write each expression in quadratic form

$$4x^{20} + 6x^{10} + 15$$

a) $2(x^{10})^2 + 3(2x^{10}) + 15$

b) $(2x^{10})^2 + (2x^{10}) + 15$

c) $(2x^{10})^2 + 2(3x^{10}) + 15$

d) $(2x^{10})^2 + 3(2x^{10}) + 15$



21

Solve each equation

$$8x^4 + 10x^2 - 12 = 0$$

$$a) x = \pm \frac{\sqrt{3}}{2}, \pm i\sqrt{2}$$

$$b) x = \pm \frac{\sqrt{3}}{2}, \pm i\sqrt{3}$$

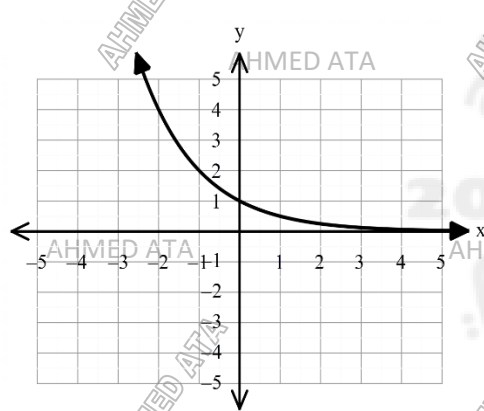
$$c) x = \pm \frac{\sqrt{2}}{3}, \pm i\sqrt{2}$$

$$d) x = \pm \frac{\sqrt{3}}{3}, \pm i\sqrt{2}$$

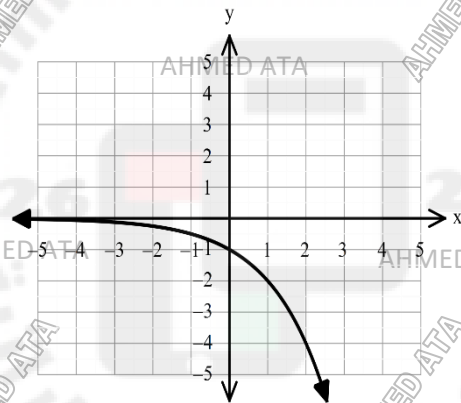


22

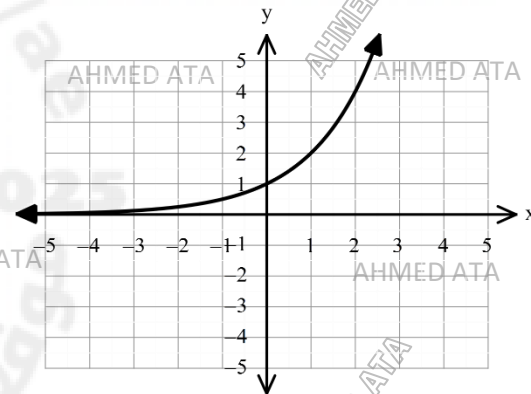
Graph $f(x) = 2^x$



a)



b)

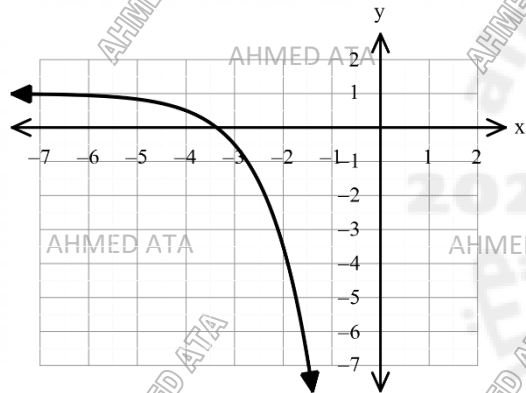


c)

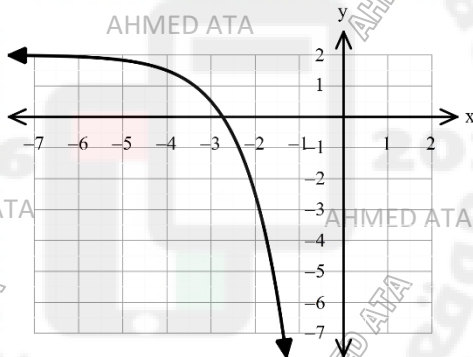


23

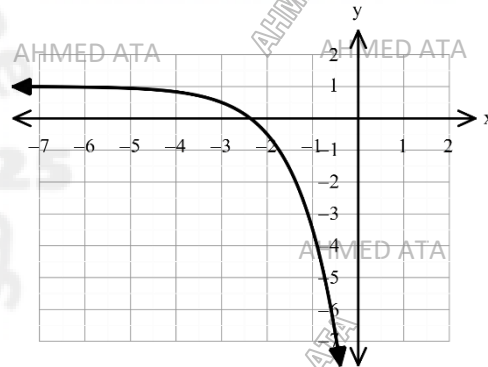
Graph $f(x) = -\frac{1}{2} \cdot 3^{x+4} + 1$



a)



b)

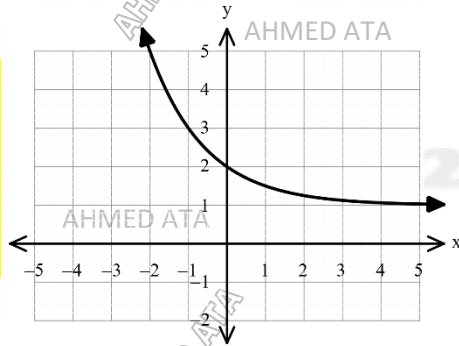


c)

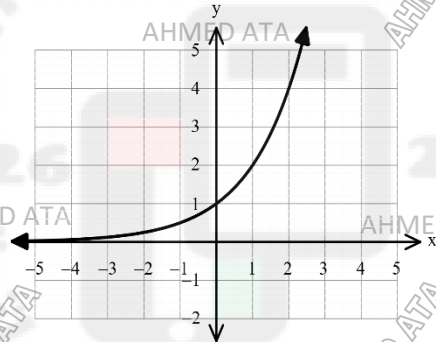


24

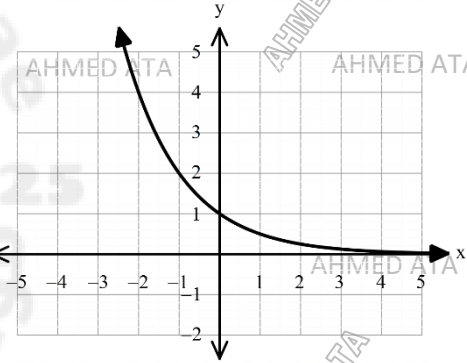
Graph $f(x) = \left(\frac{1}{2}\right)^x$



a)



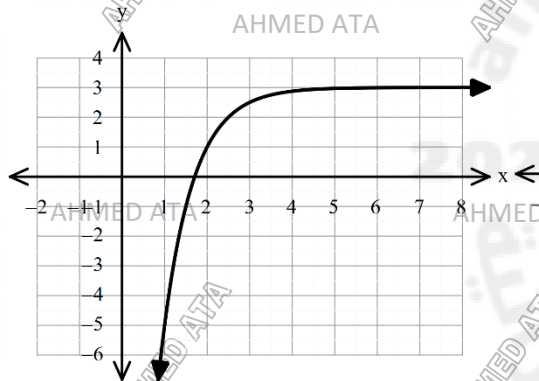
b)



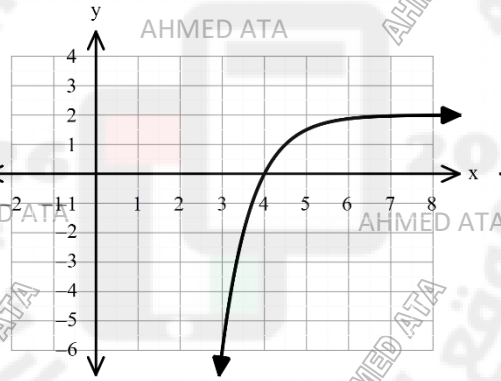
c)



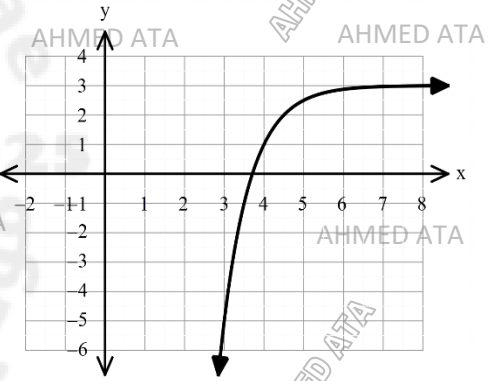
Graph $f(x) = -2 \cdot \left(\frac{1}{4}\right)^{x-4} + 3$



a)



b)



c)



A research team wants to test new football uniform designs and their appeal to young adults. They randomly select 100 young adults to view the different uniforms. The research team observes and records the reactions to the uniforms.

a) observational study

b) Experiment

b) survey

d) census



Identify this sample or question as biased.

- a) A random sample of eight people is asked to select their favorite food for a survey about Americans' food preferences.
- b) Every tenth student at band camp is asked to name his or her favorite band for a survey about the campers.
- c) Are you a member of any after-school clubs?
- d) How many glasses of water do you drink a day?



By the Empirical Rule, the middle 95% of the data in a normal distribution is under the curve between the intervals

a) $\mu - \sigma$ and $\mu + \sigma$

b) $\mu - 2\sigma$ and $\mu + 2\sigma$

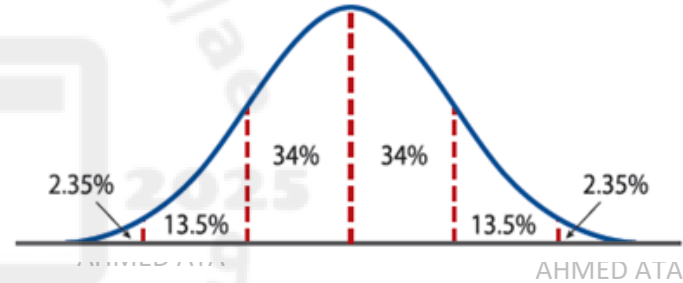
c) $\mu - 3\sigma$ and $\mu + 3\sigma$

d) $\mu - \sigma$ and $\mu + 2\sigma$



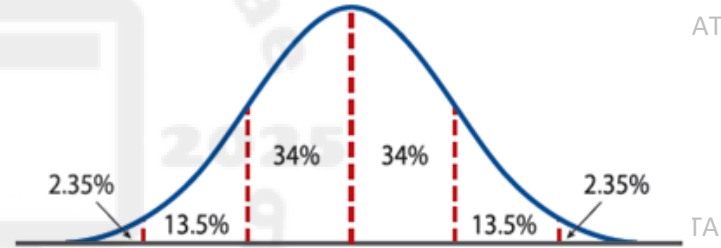
A normal distribution has a mean of 42 and a standard deviation of 6.
Find the range of values that represents the middle 95% of the distribution.

- a) 30 to 54
- b) 36 to 54
- c) 30 to 48
- d) 36 to 48



A normal distribution has a mean of 42 and a standard deviation of 6.
What percentage of the data will be greater than 36?

- a) 95%
- b) 81.5%
- c) 68%
- d) 84%



31

Solve each equation by using the Quadratic Formula.

$$x^2 + 8x + 5 = 0$$



32

Solve each equation by using the Quadratic Formula.

$$-8x^2 + 4x = -5$$

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Use Synthetic Division to Find

$$(3x^3 - 2x^2 - 53x - 60) \div (x + 3)$$



Use Synthetic Division to Find

$$\begin{array}{r} 4x^4 - 37x^2 + 4x + 9 \\ \hline 2x - 1 \end{array}$$

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35

Factor completely

$$a^8 - a^2b^6$$

$$x^6y^3 + y^9$$

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Q23

36

Factor completely

$$a^3x^2 - 16a^3x + 64a^3 - b^3x^2 + 16b^3x - 64b^3$$

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التوقعات الذهبية – ليلة الاختبار

37

Solve each equation.

$$9^{8x-4} = 81^{3x+6}$$

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38

Solve each equation.

$$9^{-x+5} = 27^{6x-10}$$

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The number of daily hits to a local news Web site is normally distributed with $\mu = 98,452$ hits and $\sigma = 10,325$ hits. Find the probability that the Web site will get at least 100,000 hits on a given day, $P(X > 100,000)$.

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The scores on a test administered to prospective employees are normally distributed with a mean of 100 and a standard deviation of 12.3.

a. What percent of the scores are between 70 and 80?

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41

The scores on a test administered to prospective employees are normally distributed with a mean of 100 and a standard deviation of 12.3.

b. What percent of the scores are over 115?

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42

The scores on a test administered to prospective employees are normally distributed with a mean of 100 and a standard deviation of 12.3.

c. If 75 people take the test, how many would you expect to score lower than 75?

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