

تجميعية أسئلة مراجعة وفق الهيكل الوزاري الجديد منهج ريفيل



تم تحميل هذا الملف من موقع المناهج الإماراتية

موقع المناهج ← المناهج الإماراتية ← الصف الحادي عشر المتقدم ← رياضيات ← الفصل الأول ← ملفات متنوعة ← الملف

تاريخ إضافة الملف على موقع المناهج: 2025-11-22 19:29:58

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

المزيد من مادة
رياضيات:

إعداد: عصام الدبايه

التواصل الاجتماعي بحسب الصف الحادي عشر المتقدم



صفحة المناهج
الإماراتية على
فيسبوك

الرياضيات

اللغة الانجليزية

اللغة العربية

التربية الاسلامية

المواد على تلغرام

المزيد من الملفات بحسب الصف الحادي عشر المتقدم والمادة رياضيات في الفصل الأول

تجميعية الأسئلة الكتابية وفق الهيكل الوزاري الجديد منهج ريفيل

1

تجميعية الأسئلة الموضوعية والمقالية وفق الهيكل الوزاري الجديد منهج ريفيل

2

حل مراجعة وفق كامل الهيكل الوزاري الجديد منهج ريفيل

3

حل مراجعة وفق كامل الهيكل الوزاري الجديد منهج بريدج

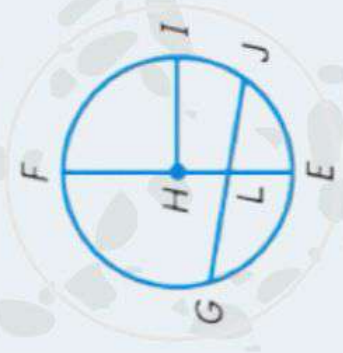
4

حل كراسة تدريبية مراجعة وفق الهيكل الوزاري الجديد منهج بريدج

5



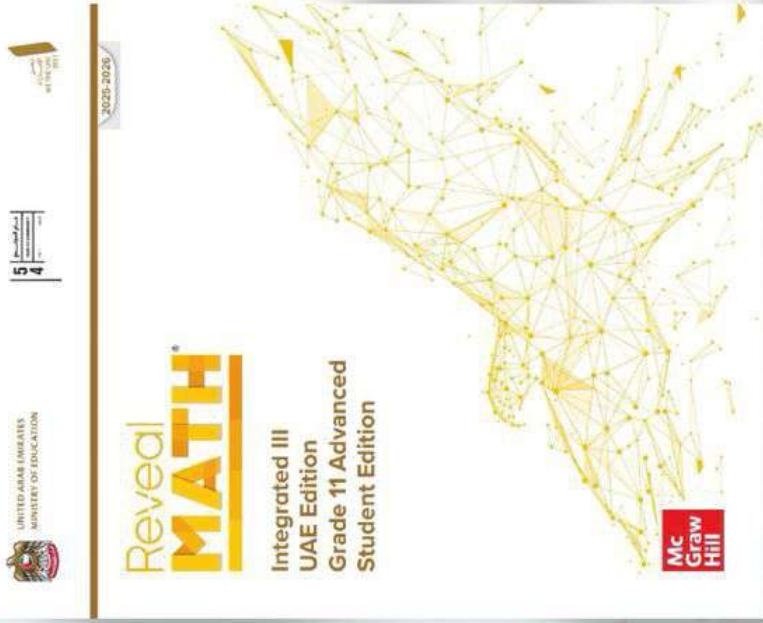
UNITED ARAB EMIRATES
MINISTRY OF EDUCATION



11

ADV.

MATH DEF.



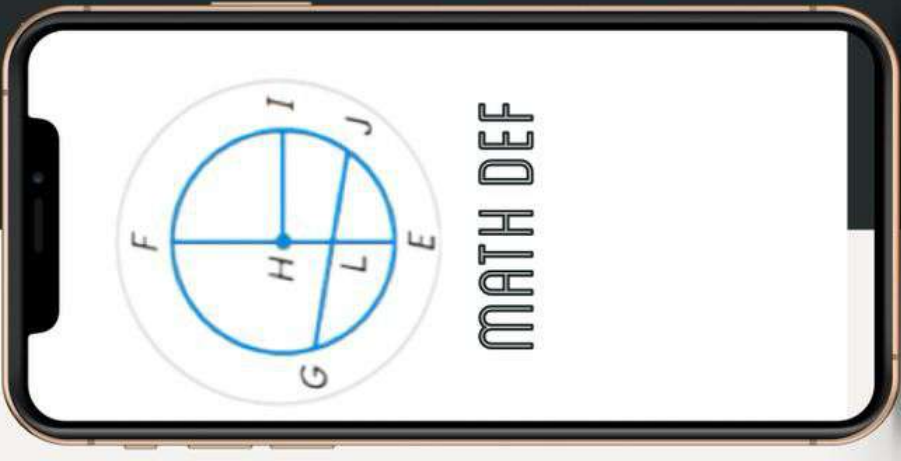
ملف وفيديو هات أسئلة الـ هات
حادي عشر متقدم فصل أول.

Eot1 - Math .

عصام
الـ بـ يـ بـ

كود بقائمة التشغيل الخاصة بالفيديوهات.

REVEAL



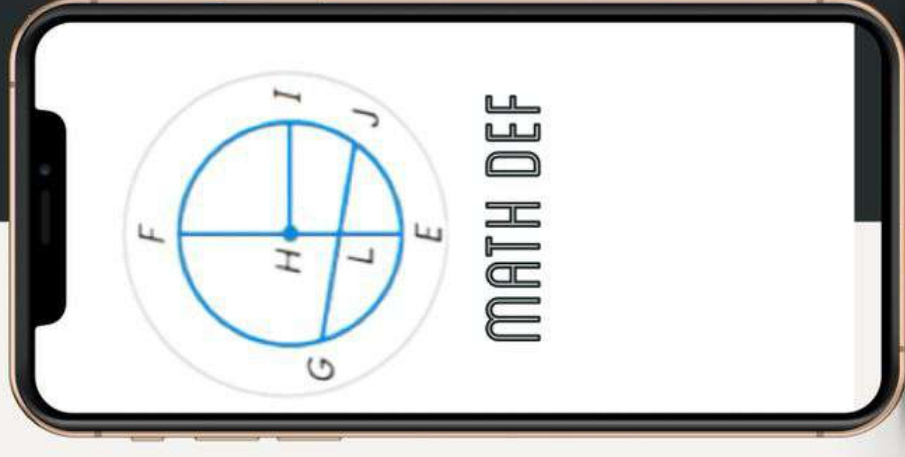
الدبابة
عصام

MCQ.

60 MARKS.

4 MARKS / QUESTION.

عصام الدين يايبه .



1. Graph exponential growth functions.

MCQ.

Graph each function. Find the domain, range, y-intercept, asymptote, end behavior.

a. $f(x) = 1.5^x$

b. $f(x) = \left(\frac{5}{2}\right)^x$

c. $f(x) = 2(3)^x$

d. $f(x) = -2(4)^x$

e. $f(x) = 3^{2x} + 1$

f. $f(x) = 3^{4x+1} - 5$

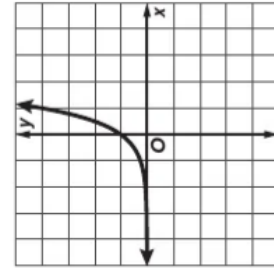
g. $f(x) = -0.4(3)^{x+2} + 4$

h. $f(x) = 1.5(2)^x + 6$

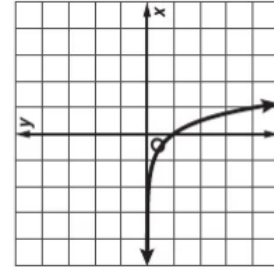
1. MULTIPLE CHOICE Select the graph of

$f(x) = 4^x$. (Lesson 5-1)

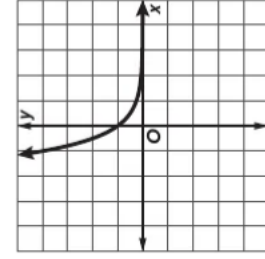
A.



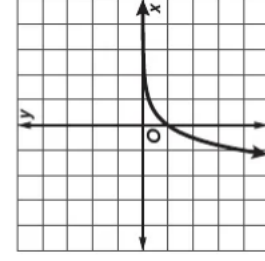
B.



C.



D.





2. Analyze expressions, functions involving natural base.

MCQ.

Consider

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

Part A

Graph the function.

Part B

Determine the domain and range.

Part C

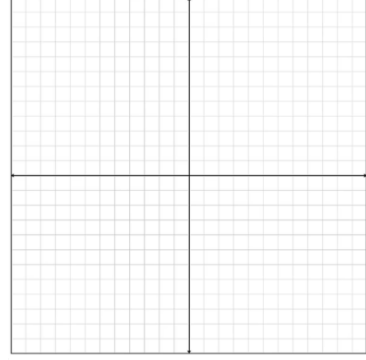
Find the average rate of change.

Determine the average rate of change of $g(x)$ over each interval.

a. $[-4, -1]$

b. $[0, 3]$

c. $[4, 8]$



Consider

$$f(x) = 3e^{x-1} + 3$$

Part A

Graph the function.

Part B

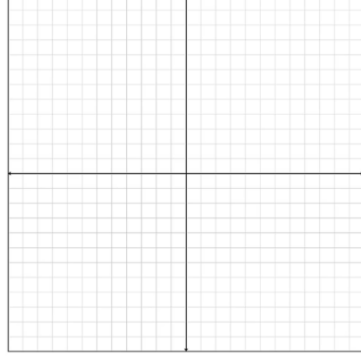
Determine the domain and range.

Part C

Find the average rate of change.

Determine the average rate of change of $g(x)$ over each interval.

$[-5, -2]$



Consider

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

Part A

Graph the function.

Part B

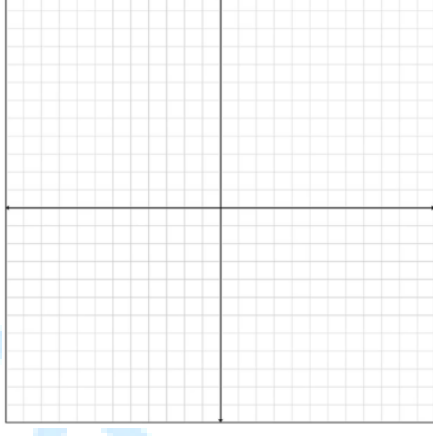
Determine the domain and range.

Part C

Find the average rate of change.

Determine the average rate of change of $g(x)$ over each interval.

a. $[-7, -4]$





3. Logarithmic and exponential expression.

MCQ.

Page 265.

Write each equation in exponential form :

1) $\log_{15}(225) = 2$

2) $\log_3\left(\frac{1}{27}\right) = -3$

3) $\log_5\left(\frac{1}{25}\right) = 2$

4) $\log_3(243) = 5$

5) $\log_4(64) = 3$

6) $\log_4(32) = \frac{5}{2}$

Write each equation in logarithmic form :

7) $2^7 = 128$

9) $7^{-2} = \frac{1}{49}$

10) $\left(\frac{1}{7}\right)^3 = \frac{1}{343}$

11) $2^9 = 512$

12) $64^{\frac{2}{3}} = 16$

4. Evaluate Logarithmic expression using change of base formula.

MCQ.

Page 279, 282.

Express logarithm in terms of common logarithms. Then approximate its value to the nearest ten-thousandth.

a.

$$\log_2 11$$

b.

$$\log_8 30$$

c.

$$\log_4 22$$

d.

$$\log_{12} 200$$

e.

$$\log_2 50$$

d.

$$\log_2 50$$

f.

$$\log_8 15$$

g.

$$\log_3 2$$

h.

$$\log_5 0.4$$

5. Simplify expressions with natural logarithms.

MCQ.

Page 286, 291.

Write each expressions as a single logarithm.

1) $\frac{1}{3} \ln 8 - \ln 3 + \ln 9$

2) $3 \ln 3 - \ln 9$

3) $4 \ln 16 - \ln 256$

4) $2 \ln x - 2 \ln 4$

5) $3 \ln 4 + 3 \ln 3$

6) $\ln 25 - 2 \ln 5$

7) $3 \ln 10 + 2 \ln 100$

8) $4 \ln \frac{1}{3} - 6 \ln \frac{1}{9}$

9) $7 \ln \frac{1}{2} + 5 \ln 2$

10) $8 \ln x - 4 \ln 5$



6. Simplify expressions with natural logarithms.

MCQ.

Page 295, 297.

Example 1

POPULATION In 2016, the population of Florida was 20.61 million people. In 2000, it was 15.98 million.

Part A

Write the equation that models the number of bacteria A cells y after t minutes. Round the value of k to the nearest thousandth.

Part B

After how many minutes will there be 1000 bacteria A cells? Round to the nearest tenth if necessary.

Part C

Bacteria B grows exponentially according to the model.

$$y = 52e^{0.064t}$$

After how many minutes will there be more bacteria A cells than bacteria B cells? Round to the nearest tenth if necessary.

Check

SCIENCE An experiment starts with 20 bacteria A cells. After 45 minutes, there are 710 bacteria A cells.

Part A

Write an exponential growth equation.

Part B

Predict when the population will reach 25 million people.

Part C

Compare the populations of Florida and California.

POPULATION

In 2000, the world population was estimated to be 6.124 billion people. In 2005, it was 6.515 billion.

- Write an exponential growth equation to represent the population y in billions t years after 2000.
- Use the equation to predict the year in which the world population reached 7.5 billion people.

CONSUMER AWARENESS

Jason wants to buy a new HD television, but he thinks that if he waits, the quality of HD televisions will improve.

The television he wants to buy costs \$2500 now, and based on pricing trends, Jason thinks that the price will increase by 4% each year.

- Write an exponential growth equation to represent the price y of a new HD television t years from now.
- Use the equation to predict when a new HD television will cost \$3000.
- Jason decides to wait to buy a new television and saves his money. He puts \$2200 in a savings account with 4.7% annual interest compounded continuously.
Determine when the amount in his savings will exceed the cost of a new television



7. Simplify rational expressions.

MCQ.

Simplify each expression, and state when the original expression is undefined.

$$1) \frac{x(x-3)(x+6)}{x^2+x-12}$$

$$2) \frac{y^2(y^2+3y+2)}{2y(y-4)(y+2)}$$

$$3) \frac{(x^2-9)(x^2+z^2)}{4(x+z)(x-3)}$$

$$4) \frac{(x^2-16x+64)(x+2)}{(x^2-64)(x^2-6x-16)}$$

$$5) \frac{x^2(x+2)(x-4)}{6x(x^2+x-20)}$$

$$6) \frac{3y(y-8)(y^2+2y-24)}{15y^2(y^2-12y+32)}$$

Simplify each expression.

$$7) \frac{x^2-5x-14}{28+3x-x^2}$$

$$8) \frac{9x^2-x^3}{x^2-3x-54}$$

$$9) \frac{(x-4)(x^2+2x-48)}{(36-x^2)(x^2+4x-32)}$$

$$10) \frac{16-c^2}{c^2+c-20}$$

8. Simplify rational expressions by adding, subtracting.

MCQ.

Page 323.

Simplify each expression.

$$1) \frac{3}{x} + \frac{5}{y}$$

$$2) \frac{3}{8p^2r} + \frac{5}{4p^2r}$$

$$3) \frac{2c-7}{3} + 4$$

$$4) \frac{2}{m^2p} + \frac{5}{p}$$

$$5) \frac{12}{5y^2} - \frac{2}{5yz}$$

$$6) \frac{7}{4gh} + \frac{3}{4h^2}$$

$$7) \frac{3}{w-3} - \frac{2}{w^2-9}$$

$$8) \frac{3t}{2-x} + \frac{5}{x-2}$$

$$9) \frac{k}{k-n} - \frac{k}{n-k}$$

$$10) \frac{4z}{z-4} + \frac{z+4}{z+1}$$

$$11) \frac{n}{n-3} - \frac{2n+2}{n^2-2n-3}$$

$$12) \frac{3}{y^2+y-12} - \frac{2}{y^2+6y+8}$$

9. Graph rational functions with oblique asymptotes and point discontinuity.

MCQ.

Page 344.

Find the zeros and asymptotes of each function. Then graph each function.

$$12) \quad f(x) = \frac{(x+3)^2}{x-5}$$

$$13) \quad f(x) = \frac{6x^2 + 4x + 2}{x+2}$$

$$14) \quad f(x) = \frac{2x^2 + 7x}{x-2}$$

$$15) \quad f(x) = \frac{3x^2 + 8}{2x-1}$$

$$16) \quad f(x) = \frac{2x^2 + 5}{3x+4}$$

$$17) \quad f(x) = \frac{x^2 - 2x - 8}{x-4}$$

$$18) \quad f(x) = \frac{x^2 + 4x - 12}{x-2}$$

$$19) \quad f(x) = \frac{x^2 - 25}{x+5}$$

$$20) \quad f(x) = \frac{x^2 - 64}{x-8}$$

$$21) \quad f(x) = \frac{(x-4)(x^2-4)}{x^2-6x+8}$$

$$22) \quad f(x) = \frac{(x+5)(x^2+2x-3)}{x^2+8x+15}$$

10. Recognize and solve direct and joint variation equations.

MCQ.

Page 351.

- a. If a varies jointly as b and c , find a when $b = 4$ and $c = -3$.

Given: $a = -96$ when $b = 3$ and $c = -8$.

- b. If a varies jointly as b and c , find a when $b = 4$ and $c = -3$.

Given: $a = -108$ when $b = 2$ and $c = 9$.

- c. If a varies jointly as b and c , find a when $b = 4$ and $c = -3$.

Given: $a = 24$ when $b = 8$ and $c = 12$.

- d. If a varies jointly as b and c , find a when $b = 4$ and $c = -3$.

Given: y varies jointly as x and z , and $y = 18$ when $x = 2$ and $z = 3$. Find y when $x = 5$ and $z = 6$.

- e. If a varies jointly as b and c , find a when $b = 4$ and $c = -3$. Given: y varies jointly as x and z , and $y = -16$ when $x = 4$ and $z = 2$.

Find y when $x = -1$ and $z = 7$.





11. Solve rational equations in one variable.

MCQ.

Page 361.

Solve each equation.

$$\frac{2x+3}{x+1} = \frac{3}{2}$$

$$\frac{12}{y} = y - 7$$

$$\frac{9}{x-7} - \frac{7}{x-6} = \frac{13}{x^2 - 13x + 42}$$

$$\frac{13}{y+3} - \frac{12}{y+4} = \frac{18}{y^2 + 7y + 12}$$

$$\frac{x-8}{2x+2} + \frac{x}{2x+2} = \frac{2x-3}{x+1}$$

$$\frac{2f}{f^2-4} + \frac{1}{f-2} = \frac{2}{f+2}$$

$$\frac{14}{x-2} - \frac{18}{x+1} = \frac{22}{x^2 - x - 2}$$

$$\frac{2}{a+2} + \frac{10}{a+5} = \frac{36}{a^2 + 7a + 10}$$

$$\frac{12p+19}{p^2+7p+12} - \frac{3}{p+3} = \frac{5}{p+4}$$

$$\frac{8}{t^2-9} + \frac{4}{t+3} = 1$$

$$\frac{x}{2x-1} + \frac{3}{x+4} = \frac{21}{2x^2 + 7x - 4}$$

$$\frac{2}{y-5} + \frac{y-1}{2y+1} = \frac{2}{2y^2 - 9y - 5}$$

12. Classify and analyze samples.

MCQ.

Identify each sample or question as biased or unbiased. Explain your reasoning.

4. A random sample of eight people is asked to select their favorite food for a survey about Americans' food preferences.

5. Every tenth student at band camp is asked to name his or her favorite band for a survey about the campers.

6. Every fifth person entering a museum is asked to name his or her favorite type of book to read for a survey about reading interests of people in the city.

7. Do you think that the workout facility needs a new treadmill and racquetball court?

8. Which is your favorite type of music, pop, or country?

9. Are you a member of any after-school clubs?

10. Don't you agree that employees should pack their lunch?



13. Find and compare experimental and theoretical probabilities.

Page 383.

1. A student spun a spinner with 4 equal sections 100 times and recorded the results.

a. Find the theoretical probability of spinning blue.

Write your answer as a percentage rounded to the nearest tenth, if necessary.

b. Find the experimental probability of spinning blue.

Write your answer as a percentage rounded to the nearest tenth, if necessary.

Spinner Section	Frequency
Red	35
Blue	38
Green	13
Yellow	14

3. A fair 6-sided die is rolled 150 times.

a. Find the theoretical probability of rolling a 3. Write your answer as a percentage rounded to the nearest tenth, if necessary.

b. Find the experimental probability of rolling a 3. Write your answer as a percentage rounded to the nearest tenth, if necessary.

Number on Die	Frequency
1	32
2	18
3	27
4	16
5	33
6	24

4. Leonard randomly selected a card from a standard deck of playing cards, recorded the suit, and returned the card. He followed this set of steps 120 times. The results are shown.

Which statement about the results is true?

- A. The theoretical probability of selecting a heart is less than the experimental probability of selecting a heart.
 B. The theoretical probability of selecting a diamond is less than the experimental probability of selecting a diamond.
 C. The experimental probability of selecting a club is greater than the theoretical probability of selecting a club.
 D. The experimental probability of selecting a heart is equal to the experimental probability of selecting a diamond.

Suit	Frequency
Heart	28
Diamond	37
Spade	34
Club	21



14. Describe distributions by finding their mean and standard deviation. MCQ.

Example 1

TRACK A coach recorded the times of each track member for a 400-meter race. Find and interpret the standard deviation of the data.

400m Race Times (seconds)	
57.1	55.9
59.3	54.9
54.6	50.3
55.2	53.5

1. BARBER

A barber wants to purchase new professional shears from a website. The prices of all of the shears are shown in the table. Use the standard deviation formula to find and interpret the standard deviation of the data. Round your answers to the nearest cent.

Cost of Shears (\$)			
50	165	55	79
84	68	38	42

2. READING

Ms. Sanchez keeps track of the total number of books each student in the book club reads during the school year. Use the standard deviation formula to find and interpret the standard deviation of the data. Round your answers to the nearest tenth.

Books Read			
9	6	12	
8	9	14	
10	13	8	

7. Zain is analyzing two sets of data.

Select all the true statements about each data set.

- A.** Data set A has a higher average value.
B. Data set B has a higher average value.
C. Data set A is more varied.
D. Data set B is more varied.

Set A			
35	28	35	33
32	31	30	36
36	33	29	34

Set B			
22	26	26	24
38	35	31	22
24	33	30	25

15. Radina and degree measures and arc length .

MCQ.

Rewrite each degree measure in radians and each radian measure in degrees.

1. 18°

2. 6°

3. -72°

4. -820°

5. 4π

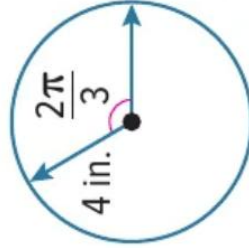
6. $\frac{5\pi}{2}$

7. $-\frac{9\pi}{2}$

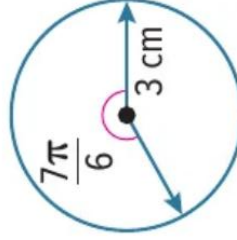
8. $-\frac{7\pi}{12}$

9. -270°

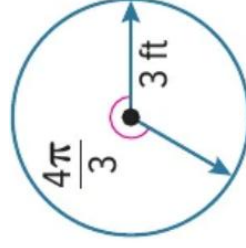
63.



64.



65.



Find the length of each arc. Round to the nearest tenth.

16. Find values of trigonometric functions by using reference angles .

MCQ.

Page 434.

Find the exact value of each trigonometric function.

40) $\tan 330^\circ$

41) $\cos \left(-\frac{11\pi}{4} \right)$

42) $\cot 30^\circ$

43) $\csc \left(\frac{\pi}{4} \right)$

44) $\sin (-150^\circ)$

45) $\tan \left(-\frac{\pi}{4} \right)$



17. Find values of trigonometric functions given a point on a unit circle .

MCQ.

Page 441.

The terminal side of angle θ in standard position intersects the unit circle at each point P. Find $\cos \theta$ and $\sin \theta$.

1) $P\left(-\frac{\sqrt{3}}{2}, \frac{1}{2}\right)$

2) $P(0, -1)$

3) $P\left(-\frac{2}{3}, \frac{\sqrt{5}}{3}\right)$

4) $P\left(-\frac{4}{5}, -\frac{3}{5}\right)$

5) $P\left(\frac{1}{6}, -\frac{\sqrt{35}}{6}\right)$

6) $P\left(\frac{\sqrt{7}}{4}, \frac{3}{4}\right)$



18. Graph vertical translations of trigonometric functions .

MCQ.

Page 469.

Example 5

SPRINGS An object on a spring oscillates according to the function $y = 40\cos(\pi t)$, where y is the distance in centimeters above its equilibrium position at time t in seconds.

Part A Find the period and frequency, and describe them in the context of the situation.

Part B Identify the domain and range in the context of the situation.

Example 6

ELECTRICITY The voltage supplied by an electrical outlet can be represented by a periodic function. The voltage oscillates between -120 and 120 volts, with a frequency of 50 cycles per second. Write and graph a function for the voltage v as a function of time t .

17. USE A MODEL

An object on a spring oscillates using the function $y = 25\cos(\pi t)$, where y is the distance in inches from its equilibrium position in t seconds.

- Find and describe the period and frequency.
- Identify the domain and range in the context of the situation.

Suppose a tire swing is rotated $\frac{\pi}{5}$ radians and released. The function

$$y = \frac{\pi}{5} \cos(2t)$$

represents the displacement of the swing at time t for a frequency of radians per second.

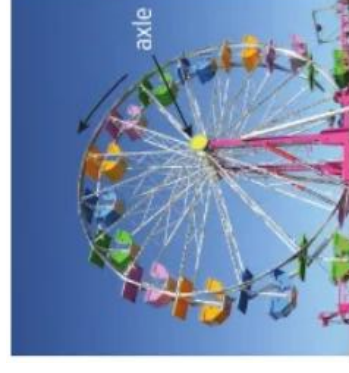
- Find the period and frequency and describe them in the context of the situation.
- Identify the domain and range in the context of the situation.

19. REASONING

A boat that is tied to a dock moves vertically up and down with the waves. Delray watches the boat for 30 seconds and notes that the boat moves up and down a total of 6 times. The difference between the boat's highest point and lowest point is 3 feet. Write and graph a trigonometric function that models the boat's vertical position x seconds after she began watching. Assume that when Delray began watching the boat, it was at its highest point and that its average vertical position was 0 feet.

20. FERRIS WHEELS

A Ferris wheel at a state fair has a diameter of 65 feet and makes 4 complete revolutions each minute. Santiago boards a car of the Ferris wheel at the car's lowest point, and he rides for 2 minutes. Write and graph a trigonometric function that models his height above or below the axle of the Ferris wheel θ minutes after the ride starts.



19. Graph vertical translations of trigonometric functions .

MCQ.

Page 469.

State the amplitude, period, phase shift, and midline equation of each function. Then graph the function and state the domain and range.

$$13. y = \cos \theta + 3$$

$$14. y = \tan \theta - 1$$

$$15. y = \tan \theta + \frac{1}{2}$$

$$16. y = 2 \cos \theta - 5$$

$$17. y = 2 \sin \theta - 4$$

$$18. y = \frac{1}{3} \sin \theta + 7$$



20. Find values of angle measures by using inverse trigonometric functions .

MCQ.

Page 473, 475.

Find each value. Write angle measures in degrees and radians.

1) $\cos^{-1} \left(\frac{\sqrt{3}}{2} \right)$

2) $\sin^{-1} \left(-\frac{\sqrt{3}}{2} \right)$

3) $\arccos \left(-\frac{1}{2} \right)$

4) $\arctan(\sqrt{3})$

5) $\arccos \left(-\frac{\sqrt{2}}{2} \right)$

6) $\tan^{-1}(-1)$

7) $\sin^{-1} \left(\frac{\sqrt{2}}{2} \right)$

8) $\cos^{-1} \left(-\frac{\sqrt{3}}{2} \right)$

9) $\arcsin(1)$

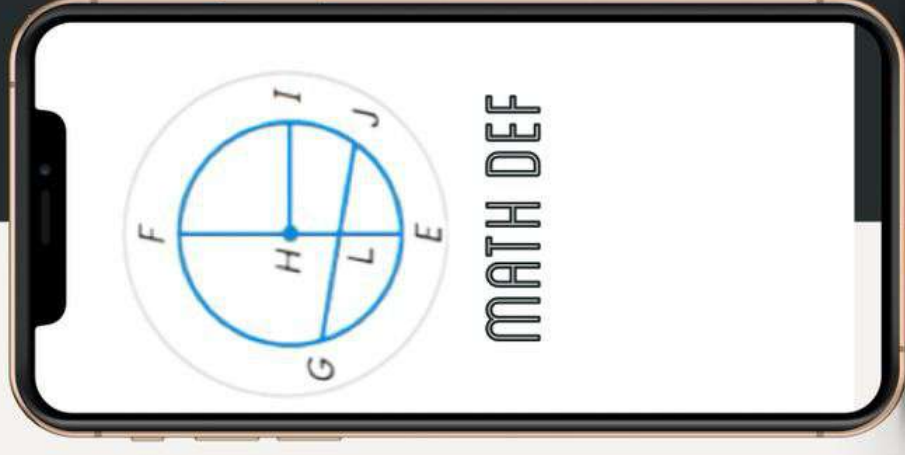


FRQ.

40 MARKS.

5 - 8 MARKS / QUESTION.

عصام الدين يايبه .



21. Solve exponential equations in one variable .

FRQ.

Page 229.

Solve each equation.

1) $25^{2x+3} = 25^{5x-9}$

2) $9^{8x-4} = 81^{3x+6}$

3) $4^{x-5} = 16^{2x-31}$

4) $4^{3x-3} = 8^{4x-4}$

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

6) $125^{3x-4} = 25^{4x+2}$





22. Solve logarithmic equations .

FRQ.

Page 273.

7) $\log_4(2x^2 - 4) = \log_4 2x$

8) $\log_5(x^2 - 6) = \log_5 x$

9) $\log_3(x^2 - 8) = \log_3 2x$

10) $\log_4(2x^2 - 20) = \log_4 6x$

11) $\log_2(6x^2 + 1) = \log_2 5x$

12) $\log_6(6x^2 - 3) = \log_6 7x$

Use $\log_4 2 = 0.5$, $\log_4 3 \approx 0.7925$, and $\log_4 5 \approx 1.1610$ to approximate the value of each expression.

13. $\log_4 30$

14) $\log_4 20$

15) $4 \log_4 \frac{2}{3}$

15. $\log_4 \frac{4}{3}$

16) $\log_4 9$

13) $\log_4 8$

19. $\log_2 25$

20) $\log_2 27$

21) $\log_2 125$

22. $\log_2 625$

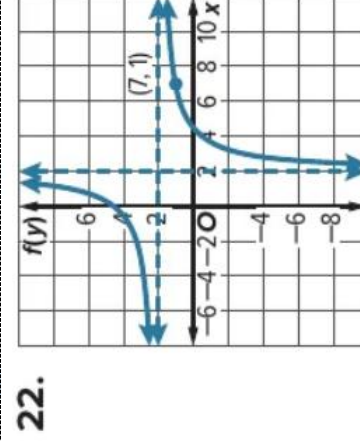
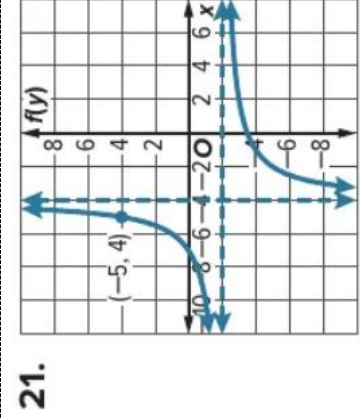
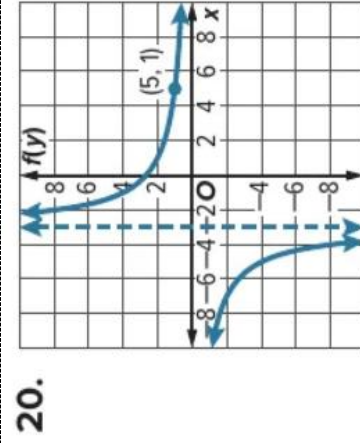
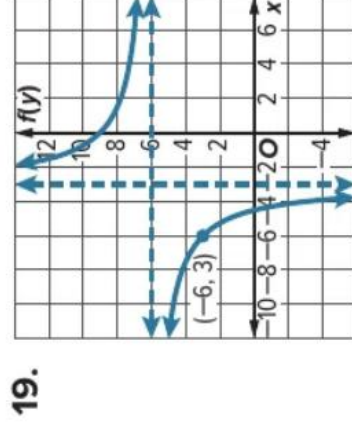
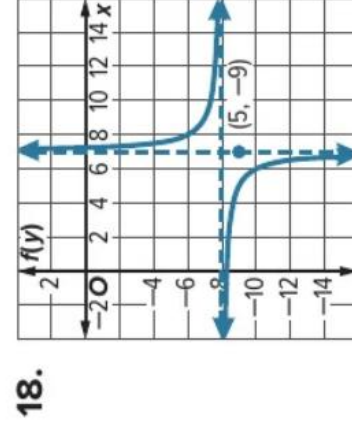
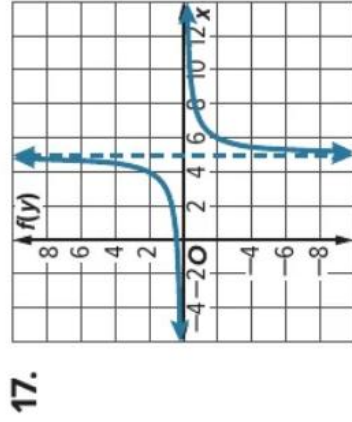
23) $\log_2 81$

24) $\log_2 243$



Identify the values a, h and k, then write a function for the graph.

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



24. Analyze standardized data by using z-values.

FRQ.

Page 399, 400, 401, 402.

Example 6

Find z if $X = 24$, $\mu = 19$, and $\sigma = 3.8$. Check

Find z if $X = 106.3$, $\mu = 88.8$, and $\sigma = 9.6$. Round your answer to the nearest thousandth. z

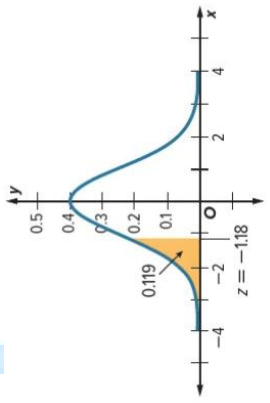
Example 7

Use a Standard Normal Distribution Table to find the area under the normal curve within the interval $z < -1.18$.

Check

Use a table to find the area under the normal curve within $z < 0.19$. Round your answer to the nearest ten thousandth. The area is

z	0.00	...	0.08	0.09
-3.4	0.0003	...	0.0003	0.0002
...	...	...	...	...
-1.1	0.1357	...	0.1190	0.1170



Find the z-value for each standard normal distribution.

8. $\sigma = 9.8$, $X = 55.4$, and $\mu = 68.34$
9. $\sigma = 11.6$, $X = 42.80$, and $\mu = 68.2$
10. $\sigma = 11.9$, $X = 119.2$, and $\mu = 112.4$

Use a table to find the area under the normal curve for each interval.

11. $z > 0.58$
12. $z < -1.56$
13. $-2.29 < z < 2.76$

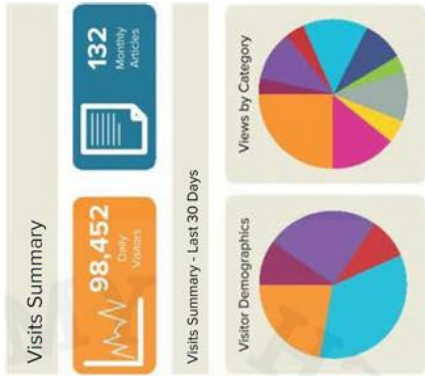
14. TESTING

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

- a. What percent of the scores are between 70 and 80?
- b. What percent of the scores are over 115?
- c. If 75 people take the test, how many would you expect to score lower than 75?

Example 8

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



25. Graph and analyze tangent functions.

FRQ.

Page 455, 456, 457, 461.

Example 1

Find the period, asymptotes, x -intercepts, midline, and transformations of the tangent function. Then graph the function.

$$y = \tan(3x)$$

Period: _____

Asymptotes: _____

x -intercepts: _____

The function is _____ in relation to the parent function.

Example 2

Find the period, asymptotes, x -intercepts, midline, and transformations of the tangent function. Then graph the function.

$$y = -\frac{1}{3} \tan(2x)$$

Period: _____

Asymptotes: _____

x -intercepts: _____

The function is _____ in relation to the parent function.

Find the period, asymptotes, x -intercepts, midline, and transformations of the tangent function. Then graph the function.

1) $y = \tan 5x$.

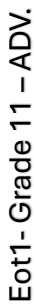
2) $y = \tan 4x$.

3) $y = \tan 2x$.

4) $y = \frac{1}{2} \tan 5x$.

5) $y = 2 \tan \frac{1}{2} x$.

6) $y = -\frac{1}{2} \tan 2x$.



Issam Al Dabaibeh.

