



برای دریافت پاسخنامه سوالات به سایت زیر مراجعه
فرمایید

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Considérons les deux fractions rationnelles

$$f(x) = \frac{6x+2}{(x+1)(x-1)}$$

$$g(x) = \frac{3x-7}{(x-1)(x-2)}$$

Notons

$$(x+1)(x-1) = 0 \iff (x = -1 \text{ ou } x = 1)$$

$$(x-1)(x-2) = 0 \iff (x = 2 \text{ ou } x = 1)$$

Nous en déduisons

l'ensemble des dénominateurs nuls de f et g est : $D_f = D_g = \mathbb{R} - \{-1, 1, 2\}$

Pour tout réel x de D_f nous avons :

$$f(x) = \frac{6x+2}{(x+1)(x-1)} - \frac{3x-7}{(x-1)(x-2)}$$

Nous en déduisons successivement :

$$f(x) = \frac{(6x+2)(x-2)}{(x+1)(x-1)(x-2)} - \frac{(3x-7)(x+1)}{(x+1)(x-1)(x-2)}$$

$$f(x) = \frac{(6x^2 - 12x + 2x - 4) - (3x^2 + 3x - 7x - 7)}{(x+1)(x-1)(x-2)}$$

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

Pour tout réel x de D_f nous avons $x-1 \neq 0$

$$f(x) = \frac{3(x-1)}{(x+1)(x-2)}$$

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کلیه حقوق مادی و معنوی این سوالات متعلق به گروه آموزشی
بیست و نو می باشد و کپی برداری و استفاده بدون ذکر
منبع از لحاظ شرعی و قانونی مجاز نمی باشد



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travehing the world

1 - If you don't eat breakfast, you'll be hungry during the morning and won't be as energetic at work as you could be.

- Ⓐ carefully Ⓟ probably Ⓜ daily Ⓔ especially

2 - A: What do you do for on weekends?

B: I often stay at home and watch TV shows and movies.

- Ⓐ continent Ⓟ destination Ⓜ entertainment Ⓔ attraction

3 - Because John was having a bad day , he was not very to his friends when they came to visit.

- Ⓐ hard working Ⓟ clean Ⓜ hospitable Ⓔ healthy

4 - Iran is a four-season country, and tourists can find a(n)..... of activities form skiing to desert touring in different parts of the country.

- Ⓐ way Ⓟ value Ⓜ range Ⓔ hint

5 - When you have to get up early the morning, you stay up late watching television.

- Ⓐ at / can't Ⓟ in / should Ⓜ in / shouldn't Ⓔ on / could

Researchers say that traveling abroad makes the brain more creative. Need proof from an expert? Here's Columbia Business School Professor, Adam Galinsky, in an interview for The Atlantic: “(a)..... experiences increase the ability to make deep connections(b)..... different forms.” In short,(c)..... situations help the brain learn how to move smoothly between different ideas.

This life skill comes in handy whenever you're faced with problems that require new ideas. All people(d)..... travel once in a while because traveling can make you reinvent your life from one stage to the next.

6 - a

- Ⓐ Domestic Ⓟ Foreign Ⓜ Energetic Ⓔ Hospitable

7 - b

- Ⓐ in front of Ⓟ above Ⓜ between Ⓔ under

8 - c

- Ⓐ careful Ⓟ cloudy Ⓜ unfamiliar Ⓔ famous

9 - d

- Ⓐ must Ⓟ shouldn't Ⓜ must not Ⓔ should

10 - We have a lot of problems that need creative answers.

- Ⓐ kind Ⓟ dry Ⓜ successful Ⓔ domestic

11 - As there was not a direct flight, they had to change planes twice before reaching their final

- Ⓐ entertainment Ⓟ destination Ⓜ attraction Ⓔ suggestion

12 - My dear Lily has got very old and this busy city life has no for her; therefore, she has decided to live in a small village near the sea.

- Ⓐ entertainment Ⓑ possibility Ⓒ knowledge Ⓓ attraction

13 - I will ask you to kindly bring your umbrella. It rain later.

- Ⓐ can Ⓑ may Ⓒ should Ⓓ must

Some people prefer to travel with a companion, believing it would be more fun. Whereas other people choose to travel alone, maintaining that it offers more freedom and fewer controls. According to my personality and interest, I would certainly prefer to go with a companion.

The first reason is safety. I believe it would be safer to travel with a companion than to go alone.

On the long journey of traveling, no one can foresee what would occur. It is not unusual to be encountered with some new happenings. For example, you may come down with a sudden illness, like a heart attack. On such occasions, it would be disastrous if you do not have someone around to take care of you when you are far out in a faraway place.

Secondly, traveling is an activity from which you expect to get fun and during which you hope to learn more about the world, and it would be impossible to do so if you travel alone. For example, when you go to a spectacular place and its beauty extremely amazes you, and strongly feel like sharing your feelings with someone, but there is no one around, then how would you feel? I am sure you could not fully appreciate the beautiful scenery. Moreover, it would surely add richness to your journey if you and your companion discuss and comment on what you see and what you hear on the way.

14 - What is the best title for the passage?

- Ⓐ Benefits of Traveling with a Companion Ⓑ Importance of Trips for Children
Ⓒ Travel Features Ⓓ Protection during a Road Trip

15 - According to the passage, why do some people prefer to travel alone?

- Ⓐ Because they are looking for more safety. Ⓑ Because they don't like to share their feelings with others.
Ⓒ Because they are afraid of a sudden illness. Ⓓ Because they are looking for more freedom.

16 - What does the underlined word "spectacular" in the last paragraph mean?

- Ⓐ sociable Ⓑ healthy Ⓒ fantastic Ⓓ effective

17 - All of the following are mentioned as reasons for traveling with a companion EXCEPT

- Ⓐ safety Ⓑ sharing feelings with others
Ⓒ hoping to learn more about the world Ⓓ money problems

18 - Titan is slightly bigger than the planet Mercury, and is called a moon only because it the giant planet Saturn rather than the Sun.

- Ⓐ clears Ⓑ defends Ⓒ pumps Ⓓ orbits

19 - You do your homework first, if you want me to let you go out with your friends.

- Ⓐ shouldn't Ⓑ must Ⓒ cannot Ⓓ may

20 - Rachel take her umbrella along with her today. The weatherman the news said it might rain later on this afternoon.

- Ⓐ can / on Ⓑ must / at Ⓒ should / on Ⓓ may / at

21 - The doctor did everything to make sure that his patient would his orders carefully to get better as soon as possible.

- ① follow ② express ③ compare ④ plan

22 - I have experienced a wide range of work environments, ranging from amazing to awful, but this company is incredible. There are a lot of people here who are into interesting projects.

- ① hospitable ② difficult ③ dangerous ④ energetic

23 - I have seen many high buildings, but this is the highest one in this part of the city.

- ① stated ② suggested ③ activated ④ located

24 - The manager asked all his assistants to make some practical and helpful about how best to deal with the serious financial crisis that has recently arisen.

- ① obligations ② descriptions ③ introductions ④ suggestions

25 - When we travel to a foreign country, we should respect people's and be careful about our behavior.

- ① culture ② range ③ vacation ④ pilgrim

26 - Leaving the house in which he was born, and the good memories he had while living there was the most decision he could make.

- ① moral ② sound ③ strong ④ painful

27 - The head of the company emphasized that the markets have been completely filled with our company's products.

- ① healthy ② domestic ③ balanced ④ unique

28 - The last time I spoke to Tom, he said he wasn't to go to Boston.

- ① planning ② checking ③ traveling ④ searching

29 - Since the cost of living in this big city was very high, we were to leave it to a small one.

- ① developed ② defended ③ suggested ④ cleared

30 - I decided to concentrate all my efforts on finding a place to study my lessons because I was going to take an important final exam.

- ① quieter ② cleaner ③ drier ④ happier

31 - Something you buy or keep to help you remember a holiday or a special event is called

- ① ceremony ② drought ③ souvenir ④ observatory

32 - They said that they wanted to spend their summer in Damavand.

- ① entertainment ② destination ③ suggestion ④ vacation

Silbo Gomero was invented in order to facilitate communication between the people of the island across the deep gorges and valleys long before mobile phones were invented. The natives of La Gomera can carry on long-distance conversations by whistling. For ordinary conversations they speak Spanish, but when they need to speak over a long distance they use Silbo.

La Gomera is one of the smallest Canary Islands. It is very mountainous, for it was once a volcano. In spite of the island's small size, walking from one point to another may be a difficult job. That is why Silbo is so useful to the natives.

A good whistler, or silbador, can be heard over miles away when there is little or no wind and other sounds do not interfere.

The record is approximately nine miles. Not only does a whistle carry farther than a shout, but it is easy to understand. In shouts, words cannot be pronounced properly while in whistling this isn't a problem. A silbador uses many methods of whistling. Most commonly he / she inserts one or two fingers straight or bent, into his mouth. Some whistlers do not use their fingers at all. Instead, they form a groove in the front part of the tongue which touches the upper front teeth. This method of whistling can make a tone of astonishing loudness.

33 - A silbador can be heard within nine miles

- (1) since a whistle carries farther than a shout
 (2) because in whistling, pronunciation isn't a problem
 (3) if unwanted sounds do not travel the same distance
 (4) when the conditions are favorable enough

34 - The underlined word "approximately" in the passage is closest in meaning to

- (1) exactly
 (2) perfectly
 (3) nearly
 (4) differently

35 - Which sentence is NOT correct according to the passage?

- (1) The natives of La Gomera speak Spanish for ordinary conversations.
 (2) La Gomera is very mountainous for it was once a volcano.
 (3) A good whistle can be heard exactly within nine miles.
 (4) Some whistlers never use their fingers.

36 - According to the tablets found in the central parts of Iran, particularly Kashan, the history of writing in Iran dates back to 5 to 7 thousand years ago.

- (1) domestic
 (2) ancient
 (3) patient
 (4) rapid

37 - My wife - Sara - is terribly upset because her father at the age of 77 last week.

- (1) carried on
 (2) passed away
 (3) pointed out
 (4) carried out

38 - It is said that the reduction of nuclear defenses can cause an increase in the of a nuclear war in the future.

- (1) distance
 (2) communication
 (3) possession
 (4) possibility

39 - In these situations, we try to close the conversation by pointing out that the topics were those to be covered in the discussion group.

- (1) exactly
 (2) rapidly
 (3) generously
 (4) orally

Passage 2

You must plan to earn a living. You must think carefully about the type of work you would like to do. You should choose a job which will bring you enough money for your needs. More important, it should help you make a contribution to society. In mines, factories, or offices people work with lots of hardship for the money that supports them. No matter where the money comes from, one thing is true: you have to earn it. Each of us must do his share.

40 - What is the best title for this passage?

- (1) "Society's Contribution"
 (2) "Working in a Mine"
 (3) "Working in a Factory"
 (4) "The Need to Earn a Living"

41 - A man should choose a job which

- Ⓐ brings him enough money and also is a contribution to society
 Ⓑ is in an office and brings him a lot of money
 Ⓒ is hard and can support him
 Ⓓ is in a factory or a mine, and helps him to make only a contribution to society

42 - The underlined word "hardship" is closest in meaning to

- Ⓐ danger Ⓑ expense Ⓒ difficulty Ⓓ beauty

43 - I a book full interesting stories. I bought it when I was a kid.

- Ⓐ am still having Ⓑ still have Ⓒ still has Ⓓ still had

44 - Now, if you want to travel to countries in the EU, you do not have to have a ...

- Ⓐ booklet Ⓑ nature Ⓒ passport Ⓓ pilgrim

Passage 3

About 200 million years ago, much of the earth was very warm and wet all year. This heat and wet air caused thick plants and tall trees to cover the land and make jungles where many animals began to appear. Dinosaurs were the first group of animals to appear on the earth 140 million years ago. Some dinosaurs were as tall as a three-storey building. Others were as small as cats. Studying fossils gives us facts about dinosaurs. For example, the shape of a dinosaur's teeth gives us information about whether it ate meat or plants. Why did dinosaurs disappear from the earth? Many people believe that it was because of the change in the earth's weather.

45 - What caused the jungles to appear?

- Ⓐ Heat and humidity Ⓑ The change in the earth's weather
 Ⓒ Huge animals Ⓓ Thick plants

46 - The reason why dinosaurs disappeared from the earth was probably

- Ⓐ the sudden change in climate Ⓑ the heat of the earth
 Ⓒ their giant size Ⓓ lack of food

47 - A more explanation for these injuries was that they were caused by a car crash

- Ⓐ domestic Ⓑ hospitable Ⓒ progressive Ⓓ probable

48 - Mr. Jason, newly employed to head the managing board in this company, explained his plans so ... that all members got satisfied with his explanation, and no questions were raised.

- Ⓐ neatly Ⓑ rarely Ⓒ repeatedly Ⓓ primarily

49 - The tallest building which was located in the downtown was destroyed by the fire and most is going to be replaced by a huge new shopping center.

- Ⓐ suitably Ⓑ probably Ⓒ generously Ⓓ easily

50 - Taj Mahal is a popular tourism It is visited by thousands of people every day.

- Ⓐ entertainment Ⓑ attraction Ⓒ culture Ⓓ abroad

51 - I asked him how long it would ... to get to the Eiffel Tower.

- Ⓐ take Ⓑ make Ⓒ walk Ⓓ go

52 - Our teacher is very with us even when we make much noise or ask silly questions.

- Ⓐ popular Ⓑ relative Ⓒ patient Ⓓ reflexive

53 - Please don't speak so I can't understand English very

- Ⓐ fast - good Ⓑ fastly - good Ⓒ fast - well Ⓓ fastly - well

54 - Which sentence is grammatically Correct?

- Ⓐ Why is the man over there looking at us? Ⓑ Tom says he is ۴۰, but nobody is believing him.
Ⓒ I am thinking this is your pen, am I right? Ⓓ This food is great. It's tasting really good.

55 - The rise in temperature makes your body a less place for the bacteria or viruses and thereby it speeds the recovery.

- Ⓐ understandable Ⓑ uncomfortable Ⓒ hospitable Ⓓ impossible

56 - Believe me! I feel truly for your great kindness. How can I repay you for everything you've done?

- Ⓐ hopeful Ⓑ grateful Ⓒ wonderful Ⓓ respectful

In 1228, Scotland became the first European country where women gained the right to propose to a man they wanted to marry. Although this is still very rare, it is legal throughout Europe.

Wedding rings have traditionally been worn on the fourth finger of the left hand. It is believed that this practice started because the Romans called the vein located in this particular finger the vena amoris, or the vein of love, leading directly to the person's heart.

Although exchanging wedding rings comes from Rome, it was in 1477 that the Archduke Maximilian of Austria started the practice of giving a diamond engagement ring to one's fiancée.

Some people say that the wedding cake tradition comes from a custom practiced in the 18th century England, where a small loaf of bread was broken over the bride's head as she was leaving the church. Unmarried couples would collect the pieces of bread, hoping they would marry soon.

Some people divorce after only a few hours. Yet, the longest recorded marriage in the world lasted for 90 years and 291 days.

57 - Which of the followings can be the best title for the above passage?

- Ⓐ Fun Facts about Marriage Ⓑ Good Customs about Marriage
Ⓒ Cake Tradition in England Ⓓ Wedding Ceremony in Church

58 - The wedding ring is worn on the fourth finger of the left hand because

- Ⓐ the Romans called it vena amoris Ⓑ it best fits the wedding rings
Ⓒ the Romans recommended to put it on that finger Ⓓ its vein connects love directly to the heart

59 - In line 2, the underlined pronoun, "it" refers to

- Ⓐ the legal act that is rare in Europe
 Ⓑ the right for women to propose to a man
 Ⓒ the act that a man marries a woman
 Ⓓ Scotland as the first country giving the women right to marry a man

60 - According to the passage, all of the followings are true EXCEPT

- Ⓐ the duration of the legal relationship between a husband and his wife is fixed
 Ⓑ women in Scotland were the first to break the regulation that men must propose to a woman
 Ⓒ the idea of giving wedding rings goes back to the Archduke Maximilian of Austria
 Ⓓ it was a custom to break bread over the bride's head while she was leaving the church

61 - With always a happy smile for all he met, he will be missed by many of his friends and neighbors.

- Ⓐ orally Ⓑ sadly Ⓒ actually Ⓓ rapidly

62 - My father wanted to sell our house because there was a school it.

- Ⓐ next to Ⓑ in front Ⓒ over Ⓓ far

63 - Perhaps there is a/an technical solution, though as yet that doesn't seem to be the case.

- Ⓐ energetic Ⓑ boring Ⓒ neat Ⓓ careful

64 - The embassy made various destinations more..... to both those who came to our country for work and those who wanted to visit our culture and nature.

- Ⓐ hospitable Ⓑ identifiable Ⓒ comfortable Ⓓ suitable

Passage 1

The sun lights only one side of the earth. It is the turning of the earth that gives us day and night. Because it turns toward the east, the sun seems to rise in the east. Throughout the day, the sun appears to move westward across the sky because we ourselves are moving eastward. It disappears or sets in the west when the turning earth blocks it out of our view. It might seem that the sun always rises in the east and sets in the west, but it is not true. In winter (north of the Equator) it rises and sets far to the north. On only two days in the year the sun rises exactly in the east and sets exactly in the west. These days are about March 21 and September 23. This is true everywhere in the world except near the poles.

65 - According to the passage, during the year the sun

- Ⓐ always rises exactly in the east Ⓑ rises twice exactly in the east
 Ⓒ never sets exactly in the west Ⓓ sets once exactly in the west

66 - When we don't see the sun, it is (با تغییر)

- Ⓐ not lightening the other part of the earth Ⓑ night everywhere in the whole universe
 Ⓒ rising and setting far to the east Ⓓ rising and setting far to the south

67 - The pronoun "it" in line 2 refers to

- Ⓐ the night Ⓑ the sun Ⓒ the day Ⓓ the earth