



برای دریافت پاسخنامه سوالات به سایت زیر مراجعه  
فرمایید

http://www.20shoo.ir

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

$$\text{Le domaine de définition } D_f \text{ est } D_f = \mathbb{R} - \{-1, 1\}$$

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

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

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

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

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

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

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

$$f(x) - g(x) = \frac{4x + 10}{(x+1)(x-1)(x-2)}$$

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



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Instagram



@ir20shoo

telegram



A Healthy lifestyle

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- 1 - The doctor, not wishing to make the patient nervous, did not fully explain the seriousness of her .....
- Ⓐ lifestyle                      Ⓑ education                      Ⓒ experience                      Ⓓ condition
- 2 - He grew up as the ..... child in a family with three children.
- Ⓐ middle                      Ⓑ main                      Ⓒ specific                      Ⓓ native
- 3 - The amount of money you ..... is entirely dependent on the amount of time you spend on the project.
- Ⓐ receive                      Ⓑ guess                      Ⓒ vary                      Ⓓ behave
- 4 - Before you join the company, you will have to have a/an ..... examination.
- Ⓐ natural                      Ⓑ ancient                      Ⓒ familiar                      Ⓓ medical
- 5 - It is difficult to say what is impossible, for the dream of yesterday, today is the hope, but also can become tomorrow's .....
- Ⓐ prize                      Ⓑ case                      Ⓒ reality                      Ⓓ matter
- 6 - Mark is so upset today. He can't possibly drive home in that .....
- addition                      addiction                      nation                      condition
- 7 - She was very .....; she cried even when her husband left for another city on business.
- Ⓐ physical                      Ⓑ calm                      Ⓒ emotional                      Ⓓ skillful
- 8 - I ..... my friend, Tom, since we were in middle school.
- Ⓐ know                      Ⓑ knew                      Ⓒ known                      Ⓓ have known
- 9 - New technologies have helped doctors to understand how diseases develop and how to ..... diseases in their early stages.
- Ⓐ enjoy                      Ⓑ fight                      Ⓒ hurry                      Ⓓ range
- 10 - In most countries, children must stay in full-time ..... until the age of 16.
- Ⓐ knowledge                      Ⓑ belief                      Ⓒ education                      Ⓓ understanding
- 11 - The police are working hard, but the cause of the accident has not yet been .....
- Ⓐ identified                      Ⓑ attempted                      Ⓒ practiced                      Ⓓ spoken
- 12 - My family raised me to believe that not only ....., but all living beings and natural things deserve respect.
- Ⓐ learners                      Ⓑ humans                      Ⓒ pilgrims                      Ⓓ regions
- 13 - They have ..... thousands of dollars rebuilding their old house.
- Ⓐ found                      Ⓑ grown                      Ⓒ chosen                      Ⓓ spent
- 14 - You can understand if anyone in the family has had a special ..... by checking your family health history.
- Ⓐ invention                      Ⓑ creation                      Ⓒ illness                      Ⓓ happiness

15 - Ted was born with normal ..... but became deaf at the age of 11.

- Ⓐ hearing                      Ⓑ pressure                      Ⓒ heartbeat                      Ⓓ vision

16 - Modern technologies have enabled us to have easy ..... to information and have a more comfortable life.

- Ⓐ point                      Ⓑ reason                      Ⓒ access                      Ⓓ luggage

17 - An electrical machine that cleans floors and carpets is called a .....

- Ⓐ dishwasher                      Ⓑ vacuum cleaner                      Ⓒ meat grinder                      Ⓓ washing machine

18 - It took us a long time, but we finally succeeded in ..... the problem.

- Ⓐ to solve                      Ⓑ solved                      Ⓒ solving                      Ⓓ solve

19 - As a firefighter, he's been in many ..... for the past 25 years and has saved hundreds of lives.

- Ⓐ events                      Ⓑ missions                      Ⓒ societies                      Ⓓ miracles

20 - Spending too much time playing computer games can make you depressed and .....

- Ⓐ improper                      Ⓑ impatient                      Ⓒ generous                      Ⓓ confident

21 - My friend ..... that funny story several times.

- Ⓐ has told                      Ⓑ tells                      Ⓒ tell                      Ⓓ telling

22 - In my opinion, there are three main reasons for ..... of an elderly person.

- Ⓐ hanging out                      Ⓑ turning round                      Ⓒ taking care                      Ⓓ coming back

23 - It would be a fantastic experience to ..... up to Mount Everest.

- Ⓐ seek                      Ⓑ find                      Ⓒ climb                      Ⓓ check

24 - To be honest, everybody can keep themselves healthy by ..... for half an hour.

- Ⓐ watching TV                      Ⓑ jogging every day                      Ⓒ surfing the Net                      Ⓓ eating junk food

25 - How many times have you made a New Year's resolution to go on a ..... and lose some weight?

- Ⓐ diet                      Ⓑ health                      Ⓒ net                      Ⓓ lifestyle

26 - Scientists are trying hard to find out what ..... the disease.

- Ⓐ prepares                      Ⓑ rushes                      Ⓒ causes                      Ⓓ forbids

27 - ..... your fear and practicing the public speaking skills can bring you success.

- Ⓐ Control                      Ⓑ To control                      Ⓒ To controlling                      Ⓓ Controlling

28 - Scientists believe that some weight problems are caused by a / an ..... to sugar and fat.

- Ⓐ proportion                      Ⓑ education                      Ⓒ addiction                      Ⓓ condition

29 - Mike said he had seen David and his brother ..... with a group of people at Walnut Park.

- Ⓐ taking out                      Ⓑ hanging out                      Ⓒ filling out                      Ⓓ putting out

30 - He was ill and weak, but fortunately, he could ..... out of the burning building.

- Ⓐ get                      Ⓑ got                      Ⓒ getting                      Ⓓ to get

31 - The jacket is available in ..... colors to suit different tastes.

- Ⓐ confident                      Ⓑ various                      Ⓒ domestic                      Ⓓ impatient

32 - Choose the odd word out.

- Ⓐ vary                      Ⓑ rush                      Ⓒ speed                      Ⓓ hurry

33 - Technology has ..... the lives of people in this century.

- Ⓐ decreased                      Ⓑ quitted                      Ⓒ increased                      Ⓓ influenced

34 - It was a big change in ..... when my family and I moved to the country.

- Ⓐ lifestyle                      Ⓑ miracle                      Ⓒ influence                      Ⓓ disorder

35 - My uncle has had that small apartment ..... 2001.

- Ⓐ from                      Ⓑ for                      Ⓒ since                      Ⓓ if

36 - I tried to sell my car, but nobody was interested ..... buying it.

- Ⓐ at                      Ⓑ with                      Ⓒ in                      Ⓓ on

37 - You've never heard of Albert Einstein? You must ..... joking!

- Ⓐ being                      Ⓑ are                      Ⓒ is                      Ⓓ be

38 - Stop being a ..... potato! Let's get together and go out for a walk.

- Ⓐ huge                      Ⓑ real                      Ⓒ couch                      Ⓓ tiny

39 - When children start smoking, they don't understand that they're ..... their health.

- Ⓐ improving                      Ⓑ causing                      Ⓒ risking                      Ⓓ disabling

40 - What I really like is ..... to other countries on vacation in summer.

- Ⓐ travel                      Ⓑ traveling                      Ⓒ to traveling                      Ⓓ traveled

41 - Eating vegetables is an important part of a healthy .....

- Ⓐ problem                      Ⓑ addiction                      Ⓒ diet                      Ⓓ development

42 - Since her husband's death, Mrs. Hamilton has been suffering from periods of deep ..... She stays home and speaks to no one for weeks.

- Ⓐ depression                      Ⓑ relation                      Ⓒ experience                      Ⓓ discussion

43 - A: ..... your brother talked to you yet? B: Yes, he .....

- Ⓐ Has / did                      Ⓑ Have / did                      Ⓒ Has / has                      Ⓓ Have / have

44 - "Where is your friend?" "I don't know. I ..... him since last week."

- Ⓐ haven't seen                      Ⓑ didn't see                      Ⓒ don't see                      Ⓓ won't see

45 - "What has she ..... ?" "She's drawn a beautiful picture."

- Ⓐ to do                      Ⓑ done                      Ⓒ did                      Ⓓ do

46 - Eating balanced servings of bread, vegetables, fruits, protein, and oil helps people live longer and prevents .....

- Ⓐ increases                      Ⓑ decreases                      Ⓒ diseases                      Ⓓ miracles

47 - "Has your father ..... smoking?" "Yes, he knows smoking is harmful to his health."

- Ⓐ got away                      Ⓑ given up                      Ⓒ kept on                      Ⓓ turned off

48 - People should ..... the time of working with their devices to avoid addiction to technology.

- Ⓐ spend                      Ⓑ limit                      Ⓒ carry                      Ⓓ enjoy

49 - Choose the word that is different.

- Ⓐ skim                      Ⓑ scan                      Ⓒ read                      Ⓓ discuss

50 - Mona's ..... isn't good with her father, but she is very close to her mother.

- Ⓐ creation                      Ⓑ mission                      Ⓒ relationship                      Ⓓ disorder

51 - My mother ..... Chinese food at home lately.

- Ⓐ didn't cook                      Ⓑ hasn't cooked                      Ⓒ wasn't cooked                      Ⓓ haven't cooked

52 - As a matter of fact, we need to look back further into the past to find the cause of these .....

- Ⓐ regions                      Ⓑ tongues                      Ⓒ poems                      Ⓓ problems

53 - When I imagine ..... him again, I feel so happy.

- Ⓐ to see                      Ⓑ seeing                      Ⓒ be seen                      Ⓓ see

54 - I ..... anyone of my friends since I left school.

- Ⓐ didn't see                      Ⓑ saw                      Ⓒ haven't seen                      Ⓓ have seen

55 - Why don't you go out instead of ..... at home all the time?

- Ⓐ sit                      Ⓑ sitting                      Ⓒ sat                      Ⓓ to sit

56 - I'm sorry I can't come to your party, but thank you very much for ..... me.

- Ⓐ invited                      Ⓑ to invite                      Ⓒ invites                      Ⓓ inviting

57 - They have lived in the city ..... they were born.

- Ⓐ for                      Ⓑ at                      Ⓒ from                      Ⓓ since

58 - Jack is a real couch potato. He ..... hangs out with his friends in his free time.

- Ⓐ always                      Ⓑ often                      Ⓒ usually                      Ⓓ rarely

#### PASSAGE 2:

Intentional weight loss is the loss of total body mass as a result of efforts to improve fitness and health, or to change appearance through getting thin. Weight loss in individuals who are overweight or very fat can reduce health risks, increase fitness, and may delay the start of diabetes. It could reduce pain and increase movement in people with osteoarthritis of the knee. Weight loss can lead to a reduction in hypertension (high blood pressure), however whether this reduces hypertension-related harm is unclear.

Weight loss occurs when the body is spending more energy in work and metabolism than it is absorbing from food or other nutrients. It will then use stored reserves from fat or muscle, gradually leading to weight loss. For athletes seeking to improve performance or to meet required weight classification for participation in a sport, it is not uncommon to seek additional weight loss even if they are already at their ideal body weight. Others may be driven to lose weight to achieve an appearance they consider more attractive. However, being underweight is associated with health risks such as difficulty

fighting off infection, osteoporosis, decreased muscle strength, trouble regulating body temperature and even increased risk of death.

59 - The word "It" in paragraph 2 refers to .....

Ⓐ body

Ⓑ food

Ⓒ energy

Ⓓ weight loss

