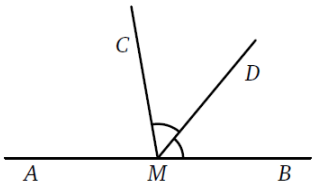
M. 2018-2019 №38

1. Berilgan chizmada MD-chiziq $\angle CMB$ ni bissektrisasi va $\angle DMC = 55^o$ bo`lsa $\angle CMA$ ni toping.



A) 50^o B) 60^o C) 70^o D) 80^o

2. $\int_1^{\frac{3}{2}} [2x-1]dx = ?$

A) 0,5 B) 1 C) 2 D) 3

3. Agar $x = \frac{\sqrt{11}+1}{2}$ bo'lsa $\frac{2x^3-3x^2+10x-1}{3x^2-3x+3}$ ni qiymatini toping?

A) $\frac{1}{2}(2\sqrt{11}+1)$ B) $\frac{2}{3}(\sqrt{11}+1)$ C) $\frac{2}{3}(\sqrt{11}+3)$ D) $\frac{2}{3}(2-\sqrt{11})$

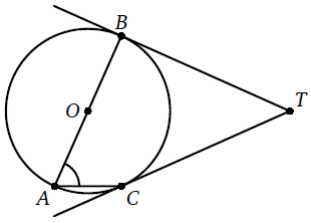
4. Soddalashtiring ? $\frac{\sin 34°-\sin 22°+\cos 16°+\sin 8°}{4\cos 4°\cos 20°\cos 32°}$

A) 1 B) -1 C) 2 D) 0.5

5. Basketbol o`yini uchun 15 nafar sportchidan necha xil usulda 5 nafar sportchidan iborat ikkita jamoa tuzish mumkin?

A) 3013 B) 1716 C) 2184 D) 2340

6. AB aylana diametri , TC va TB unga o`tkazilgan urunmalar . $\angle CAB = 66^o$ bo`lsa $\angle CTB$ ni toping .



A)38 B)48 C)58 D)68

7. Ta'lim muassasasida barcha o'quvchi kamida bittaingliz yoki nemis tilida so`zlasha oladilar ayrimlari esa ikkala tilni biladilar.O`quvchilarning 85% I ingliz tilini 75% I nemis tilini biladilar. Ikkala tilni ham biladigan o'quvchilar barcha o'quvchilarning necha foizini tashkil etadi.

A) 50 B) 60 C) 30 D) 40

8. $f(x)$ funksiya barcha x larda aniqlangan bo'lsa, $f(x)$ning eng kichik musbat davrini toping?

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

A) 16 B) 12 C) 18 D) 6

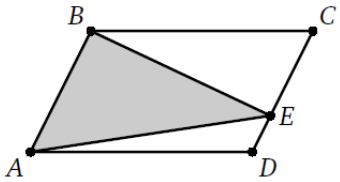
9. $\cos\frac{\pi}{12}+\sin\frac{\pi}{12}=\frac{a}{4\cos\frac{\pi}{12}}$ bo`lsa, a =?

A) $\sqrt{3}$ B) $\sqrt{3}+1$ C) $\sqrt{3}+2$ D) $\sqrt{3}+3$

10. $\begin{cases} y \le x+1 \\ x \le 11-y \\ x \ge y-2 \\ y \ge 4 \end{cases}$ tenglamalar sistemasining yechimlari koordinata o`qida hosil qilgan shaklni Ox o`qiga parallel bo`lgan (jism) tomoni atrofida aylantirildi.Hosil bo'lgan jism hajmini toping.

A) $\frac{135\pi}{12}$ B) $\frac{120\pi}{5}$ C) $\frac{145\sqrt{13}\pi}{13}$ D) $\frac{145\pi}{4}$

11. $S_{AEB}=2$ bo`lsa S_{ABCD} parallelogram yuzini toping.



A)3 B)4 C)5 D)6

12. a+b+c =9 $\frac{1}{a+b}+\frac{1}{a+c}+\frac{1}{a+c}=1$ bo'lsa (a+b+c)-($\frac{c}{a+b}+\frac{b}{a+c}+\frac{a}{b+c}$) ni toping.

A) 5 B) 3 C) 2 D) 6

13. $\frac{(1-2i)^2}{1+3i}=?$

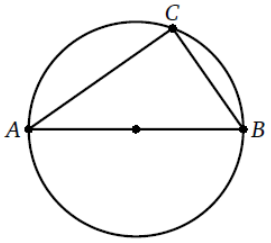
A) $0,5i+1,5$ B) $0,5i-5$

C) $0,5i-1,5$ D) $1,5i+1,5$

14. Vertolyot bir viloyatdan ikkinchi viloyatga shamol yo'nalishi bo'yicha 2,4 soatda, ikkinchi viloyatdan birinchi viloyatga shamolga qarshi yo'nalishda 4 soatda yetib boradi, agar shamolning tezligi 10 km/soat ni tashkil etsa, ikki viloyat orasidagi masofani toping?

A) 124km B) 240km C) 80km D) 120km

15. Aylananing radiusi 4 ga va AC= $\sqrt{39}$ bo`lsa BC ni toping.



A)3 B)4 C)5 D)6

16. 2001 butun musbat sonning ko'paytmasi 105 ga yig'indisi 2021 ga teng . Bu sonning eng kattasi nimaga teng .

A) 15 B) 105 C) 21 D) 35

17. $\begin{cases} a = 2b + 6 \\ 3b = 3 - c \end{cases}$ bo'lsa , $\frac{6c + 3ab + 2bc - 6b}{a + b + c}$ ifodani qiymatini hisoblang .

A) 0 B) 2 C) 1 D) 4

18. . Ko'bhadning ozod hadini toping ?

$f(x) = (5x^3 - 1)^{2017} \cdot (2016x^7 + 1)^5 + x^{27} + 14$

A)12 B) 13 C) 15 D) 14

19. $\lim_{x \to \pi} \frac{\sin x}{\sqrt{x - \pi}} = ?$

A) 0 B) 1 C) -1 D) π

20. Natural n sonning kvadrati 10 ga bo'linganda qanday qoldiqlarga ega bo'lish mumkin ?

A) 0;2;3;7;6 B) 0;1;4;5;6;9
C) 0;2;3;5;8 D) 0;2;3;5;9

21. $\frac{3^x}{3^x - 2^x} < 3$ Tengsizlikning eng katta butun manfiy va eng kichik butun musbat yechimlari ko'paytmasini toping ?

A)-2 B) 2 C) 4 D) -1

22. f(x) funksiya berilgan (a;b) intervalda noldan farqli va differensiallanuvchi bo'lsin . $(f(x))^{-4}$ funksiyaning (a;b) intervaldagi hosilasini toping ?

A) $4(f(x))^5 \cdot f'(x)$ B) $-4(f(x))^3 \cdot f'(x)$

C) $-4(f(x))^{-5} \cdot f'(x)$ D) $2((f(x))^{-2} \cdot f'(x))$

23. $\{x | x \in N, x^2 < 28\}$ to'plamni necha usul bilan ikkita kesishmaydigan qism-to'plamlar birlashmasi ko'rinishida ifodalash mumkin ?

A) 32 B) 5 C) 28 D) 16

24. 123451234512345123451234512345 sondan 10 ta raqam shunday o'chirilganki , hosil bo'lgan son eng katta bo'ldi . Shu sonning 3- raqamini toping ?

A) 2 B) 5 C) 4 D) 3

25. Agar $y = x^{x^{x^2}}$ bo'lsa, $y'(1) = ?$

A) 0 B) bu qiymatda hosila mavjud emas C) 2 D) 1

26 Ali sakkizlik sanoq sistemasida (73;100) oraliqdagi barcha butun sonlarni yozib chiqdi. Vali esa shu sonlardan avval 5 raqami, so'ng 6 raqami qatnashgan barcha sonlarni o'chirib tashladi. Qolgan sonlar yig'indisini sakkizlik sanoq sistemasida aniqlang va o'nbeshlik sanoq sistemasiga o'tkazing.

A) *7B* B) *83* C) *67* D) *58*

27.A = "Mening kompyuterim" maxsus qobiq dasturdir."
B = "Fayl nomida*,\ , / belgilarini ishlatish mumkin."
C = "Kompyuter ishiga zarar keltiruvchi dasturlardan himoyalovchi dasturlar arxivatorlar deb ataladi." SHu mulohazalar asosida quyidagi mantiqiy ifodaning natijasini toping:
(not A or B) and (C or not B) or not C
A) *Ba'zi mulohazalarning qiymatini aniqlab bolmaydi*
B) *Yolg'on* C) *Rost* D) *Ifodada xatolik bor*

28.MS Excel.
=?(−23;6) – ЗНАЧЕН(ЗАМЕНИТЕЬ(??(−23;6);2;2;6))
formulaning natijasi 67 bo'lishi uchun ? va ?? belgilarining o'rniga qo'yish mumkin bo'lgan funksiyalar to'g'ri berilgan javobni aniqlang.
A) *Мин, Мин* B) *Остат, Заменить*
C) *Мин, Макс* D) *Остат, Сцепить*

29.Quyidagi html-hujjat kodi yozilishi bo'yicha kataklar ketma-ket sanalganda nechanchi katakda tag chiziqli va og'ma shrift qo'llanilgan?
<table><tr><tdcolspan=2><b><ahref="#test">
test< / em>< / b>< / a>< / td><tdrowspan=2>
<u><sup>
test< / sup>< / u>
< / strong></ ul></td></tr><tr><td><cite><u>
<imgsrc=test.jpg>test< /u></cite></td><td><dl>
<sub><dd>test</ sub></dl></td></tr></table>
A) *Birinchikatakda* B) *Ikkinchikatakda*
C) *Uchinchikatakda* D) *To'rtinchikatakda*

30.Paskal. Dastur natijasini aniqlang.
Var a,b,c: integer; k:boolean; s:string;
Begin Randomize; S:=´INFORMATIKA´;
a:=1+random(1); b:=1+trunc(random); k:=true;
while k Do begin c:=a+b; a:=c mod a+1;
b:=c div b; if a=b then k:=false; end;
Write(s[a]+s[b]+s[c]); readln; End.

A) *NON* B) *IFA*
C) *Natijani aniqlab bo'lmaydi* D) *IIF*