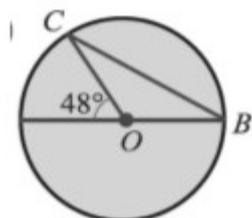


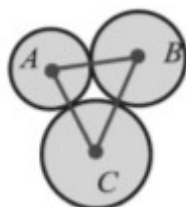
10- Sinf. Matematika



1. BOC uchburchak burchaklarini toping

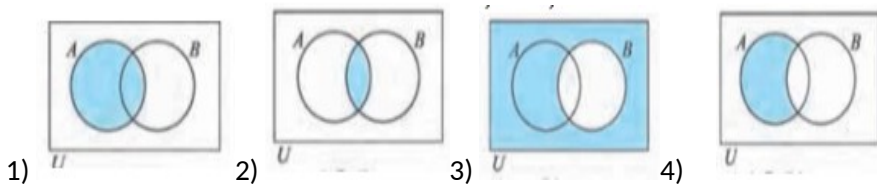
- A) $48^\circ, 48^\circ, 84^\circ$ B) $24^\circ, 132^\circ, 24^\circ$ C) $42^\circ, 90^\circ, 48^\circ$ D) $48^\circ, 32^\circ, 20^\circ$

2. Uchburchakning uchlari radiuslari 6 sm, 7 sm, 8 sm bo'lgan va juft-jufti bilan urinadigan uchta aylana markazlarida yotibdi. Bu uchburchak perimetrini toping



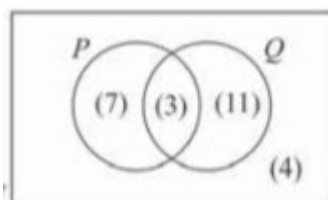
- A. 28 sm B. 29 sm C. 27 sm D. 42 sm

3. $A \cap B$ ni toping



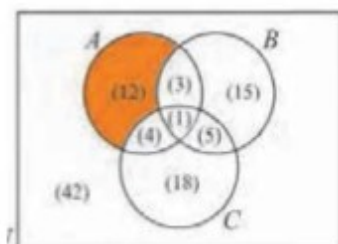
- A. 1 B. 2 C. 3 D. 4

4. $P \cup Q$ to'plamning nechta elementi bor



- A. 25 ta B. 24 ta C. 28 ta D. 21 ta

5. $A \cup B \cup C$ va $A \cap B$ to'plamning elementlari sonini toping

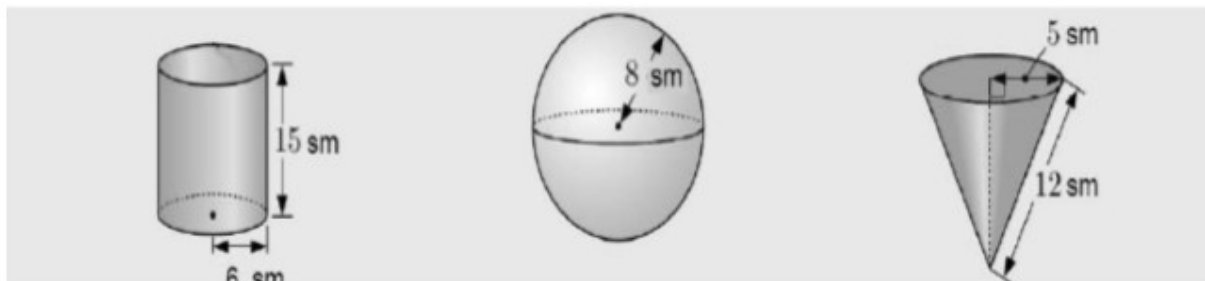


- A. 58 va 4 B. 45 va 13 C. 57 va 4 D. 46 va 12

6. Agar teng yonli uchburchak burchaklari 3:4:3 nisbatda bo'lsa, uning uchuning bissektrisasi va yon tomomni orasidagi burchakni toping

- A) 18° B) 72° C) 36° D) 60°

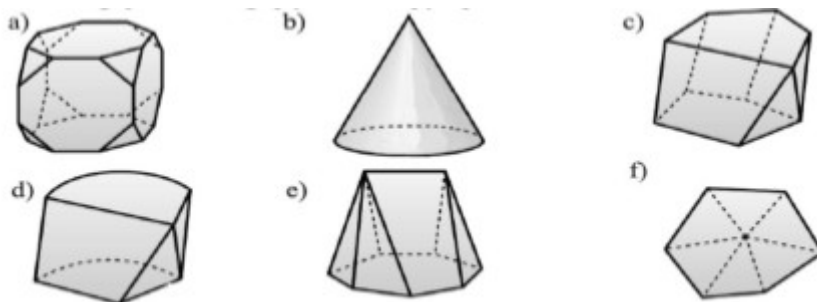
7.



Yuqoridagi shakllarning qaysi birining to'la sirtining yuzi 267 sm^2 ga teng

- A) Silindr B) Shar C) Konus D) Teng emas

8. Quyidagi shakllarning qaysilari ko'pyoq bo'ladi?



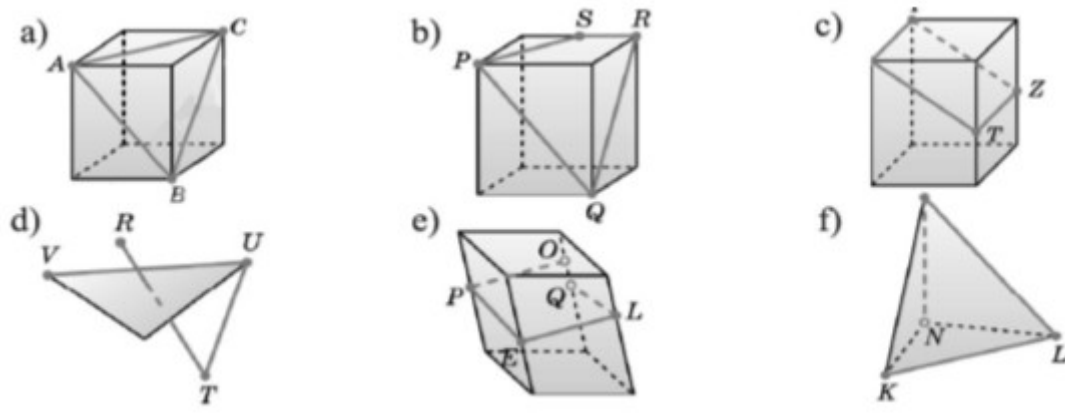
- A) a,c,e,f B) c,e C) a,c,e D) a,c,d,e,f

9. Bo'sh katakning qiymatini toping

Yil	Qarz (1)	Foiz to'lovi = $\frac{Cm}{100}$ (2)	Balans (1) + (2)
1	\$6000,00	$\$6000,00 \times \frac{8}{100} \times 1 = \$480,00$	\$6480,00
2	\$6480,00	$\$6480,00 \times \frac{8}{100} \times 1 = \$518,40$	\$6998,00
3	\$6998,00	$\$6998,00 \times \frac{8}{100} \times 1 = \$559,87$	

- A) 7435,27\$ B) 7556,27\$ C) 7557,87\$ D) 7559,27\$

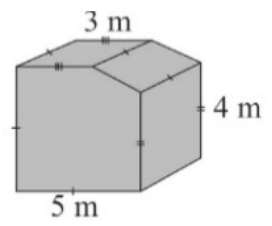
10. Kesimida fazoviy to'rtburchak hosil bo'lgan shakllar qaysilar



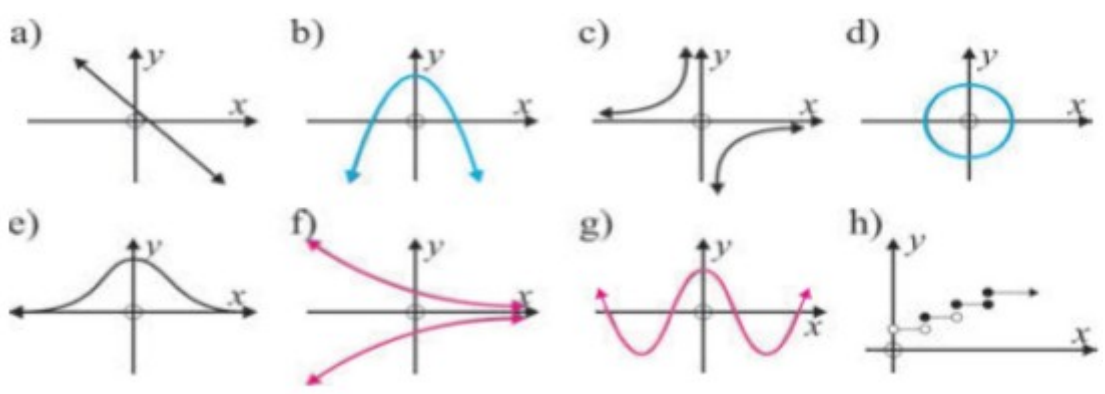
A) b,c B) b,c,e C) a,b,c,e D) a,b,e,f

11. Shaklning to'la sirtini toping

- A) $(133+5\sqrt{5}) m^2$
- B) $(132+5\sqrt{5}) m^2$
- C) $(133+\sqrt{5}) m^2$
- D) $(134+5\sqrt{5}) m^2$

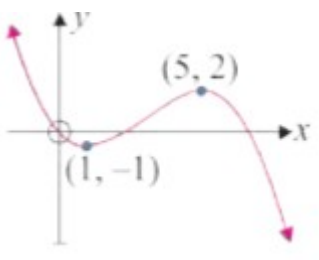


12. Quyidagilarning qaysilari funksiya bo'ladi?



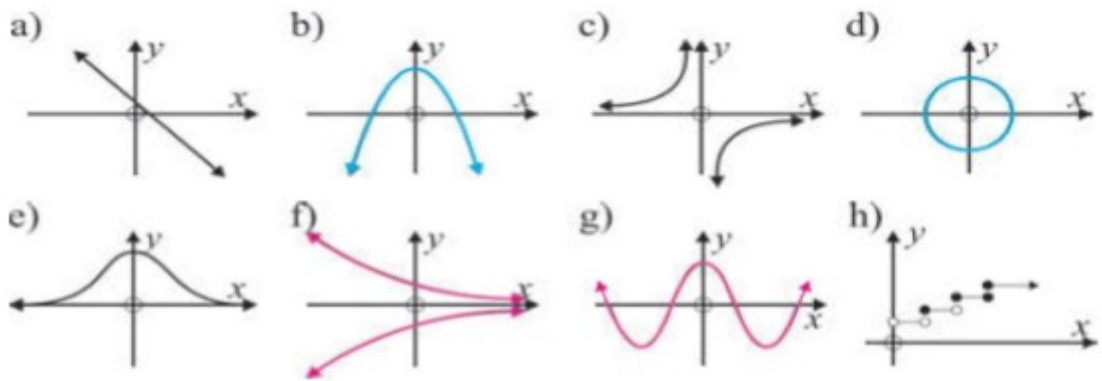
A) a,b,c,e,g B) a,b,g C) b,c,e D) a,b,c,e,g,h

13. Funksiyaning o'sish oralig'ini toping



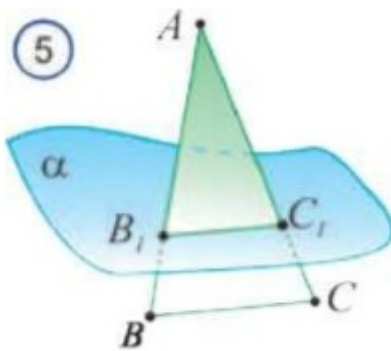
A) (1;5) B) (-1;5) C) (-1;2) D) (1;2)

14. Quyidagilarning qaysilari akslantirish bo'lmaydi?



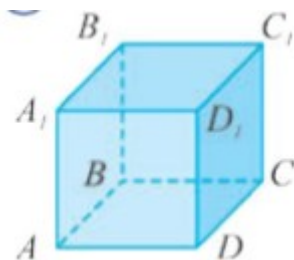
A) a,b,c,e,g B) a,b,g C) d,f,h D) a,b,c,e,g,h

16. ABC uchburchak α tekislikni B_1 va C_1 nuqtalarda kesib o'tadi (4- rasm). Agar $AB_1 : BB_1 = 3:2$, $BC = 15$ sm, $BC \parallel B_1 C_1$ bo'lsa, $B_1 C_1$ kesmaning uzunligini toping.



A) 6 B) 9 C) 12 D) 8

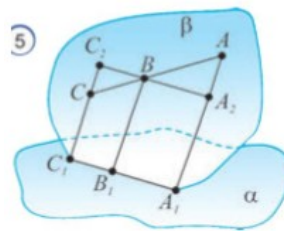
17. Berilgan parallelepipedning berilgan yoqlarigdan qaysi biri ABCD yog'iga parallel bo'ladi?



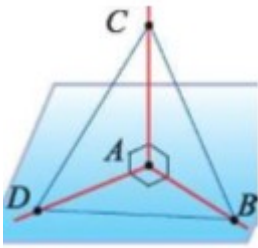
A) $ABB_1 A_1$ B) $CDD_1 C_1$ C) $B_1 C_1 CB$ D) $A_1 B_1 C_1 D_1$

18. Qaysi kesmalar proporsional

- A) $AB:BC=AB:BC_2$
- B) $AB:BC=A_1 B_1 :B_1 C_1$
- C) $AB:BC=AA_2 :A_2 A_1$
- D) $AB:BC=C_2 C:CC_1$

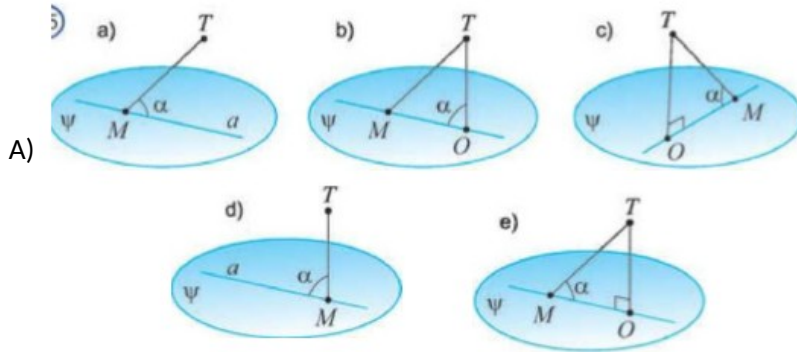


19. AB, AC, AD juft-jufti bilan perpendikulyar, $AB=3$ sm, $BC=7$ sm, $AD=1,5$ sm bo'lsa, $CD=?$



- A) 6,5 B) 6 C) 5,5 D) 5

20. Quyidagi rasmlarning qaysilarida tekislik va og`ma orasidagi α burchak to`g`ri belgilangan?



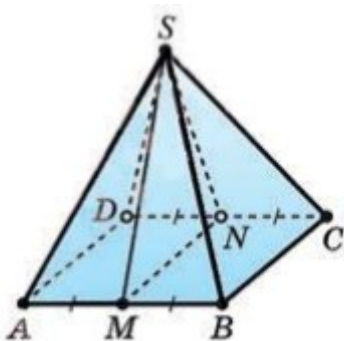
A)

Hammasi B) a,c,d,e

C) c,e D) b,c,e

21. orthogonal proyeksiyasini toping

SABCD ko`pyoqning α tekislikdagi



A)



B)



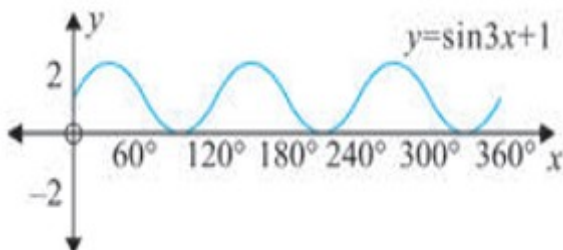
C)



D)



22. Funksiyaning davri nechaga teng



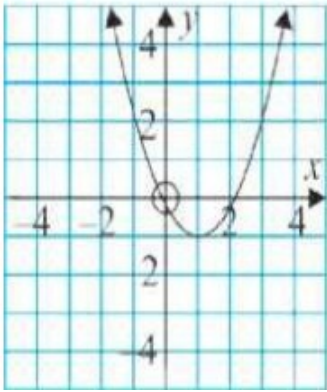
A) 60°

B) 180°

C) 360°

D) 120°

23. O'sish va kamayish oraliqlarini toping



- A) $x > 2$ o'suvchi, $x < 2$ kamayuvchi B) $x > 1$ o'suvchi, $x < 1$ kamayuvchi
 C) $x < 1$ o'suvchi, $x > 1$ kamayuvchi D) $x < 2$ o'suvchi, $x > 2$ kamayuvchi

24. Sonlar ketma-ketligidagi keyingi sonni toping: 0, 1, 5, 14, 30, ...

- A) 46 B) 50 C) 55 D) 60

25. 3 ta to'g'ri chiziq tekislikni ko'pi bilan nechta tekislikka ajratishi mumkin

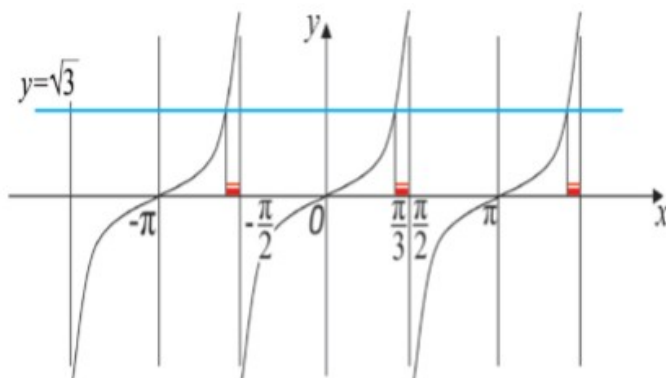
- A) 4 ta B) 5 ta C) 6 ta D) 7 ta

26. Shirinlikning shakli qanday geometrik shakl



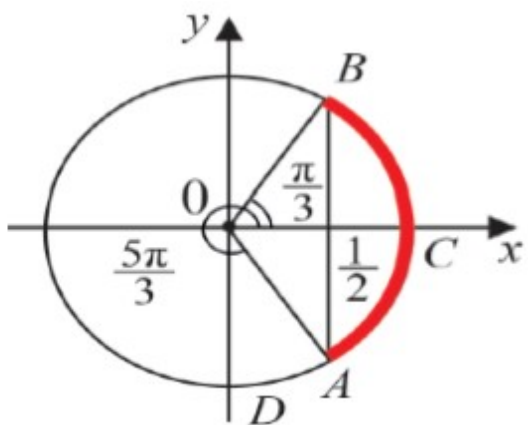
- A) Parallelepiped B) Piramida C) Silindr D) Kub

27. Grafik qaysi trigonometrik funksiyaga tegishli?



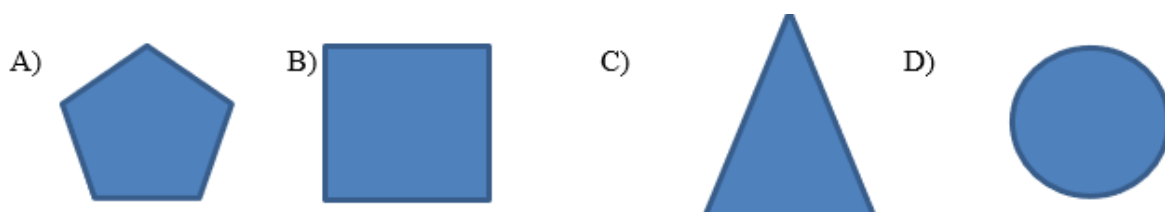
- A) $y = \sin x$
 B) $y = \cos x$
 C) $y = \operatorname{tg} x$
 D) $y = \operatorname{ctg} x$

28. Belgilangan sohani toping



- A) $[-\pi 3; 3]$ B) $(-\pi 3; 3)$ C) \emptyset D) 0

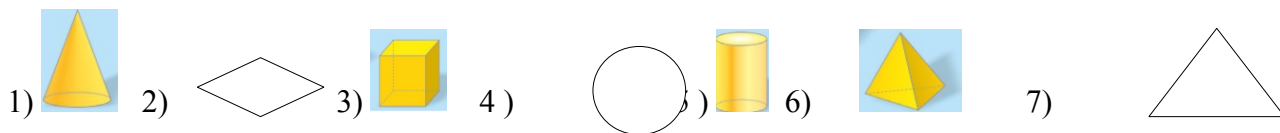
29. Qaysi shaklning simmetriya o`qi bitta



30. Qatoridagi keying sonni toping: 30, 35, 60, 185, ...

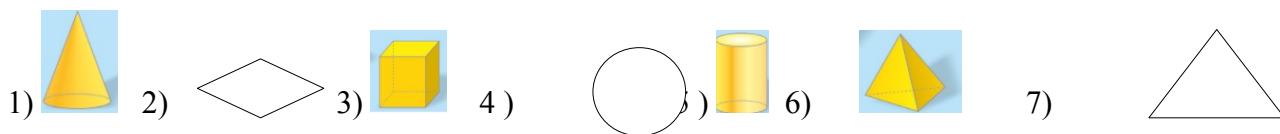
- A) 250 B) 625 C) 810 D) 825

31. Berilgan shakllardan qaysilari fazoviy shakllar?



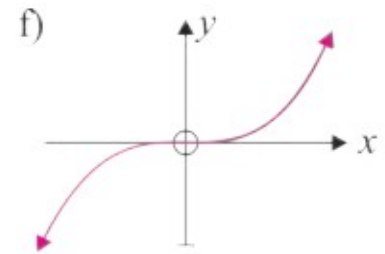
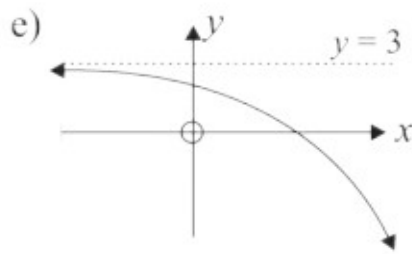
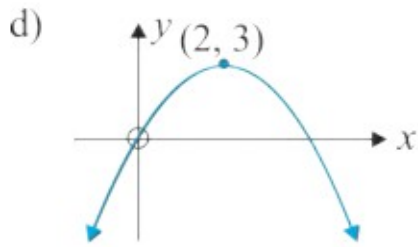
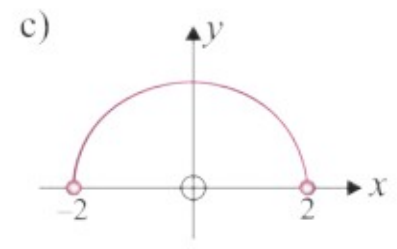
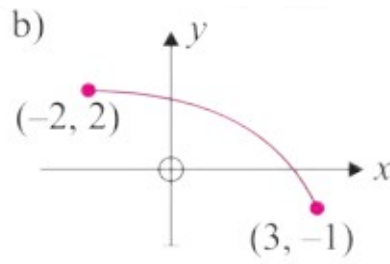
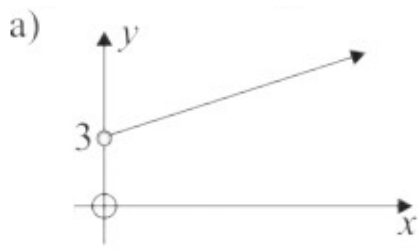
- A) 1,3,5,6. B) 1,2,3,5. C) 2,4,5,6. D) 2,4,7.

32. Berilgan shakllardan qaysilari planimetriya bo`limida o`rganiladigan shakllar?



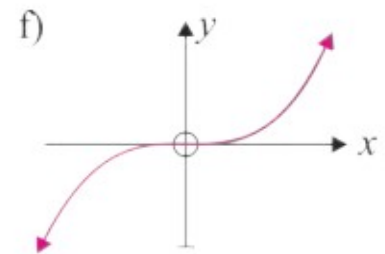
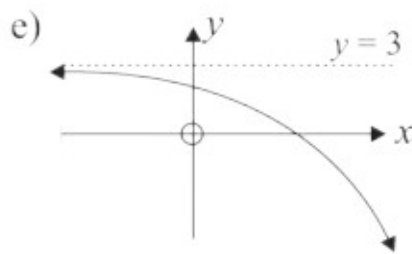
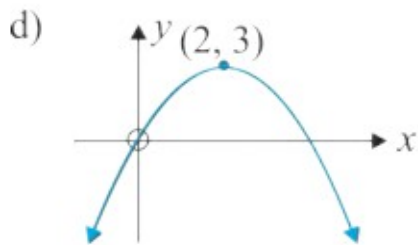
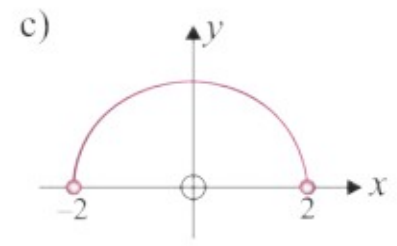
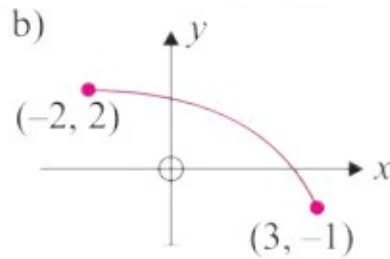
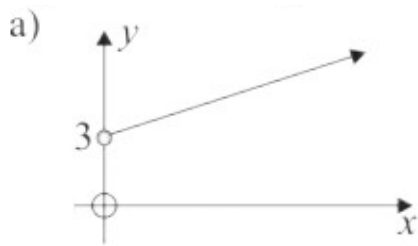
- A) 2,4,7. B) 1,2,3,5. C) 2,4,5,6. D) 1,3,5,6.

33. Berilgan funksiya grafiklartidan qaysi biri faqat o`svuchi funksiya grafigi?.



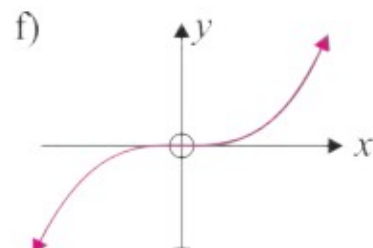
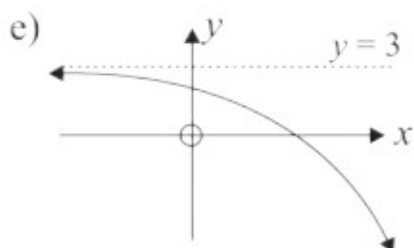
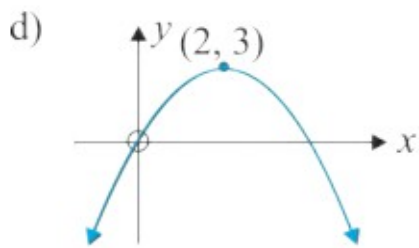
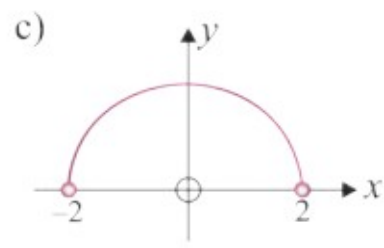
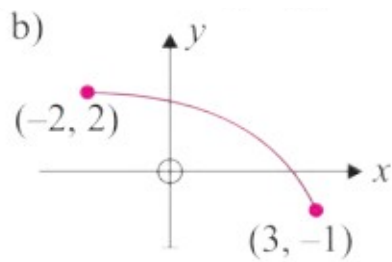
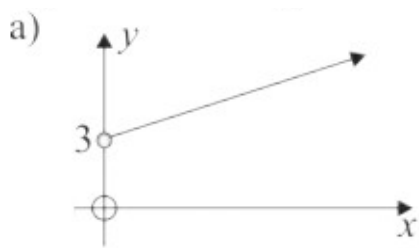
A) a, f B) a, b, d. C) a, c, e, f. D) b, e

34. Berilgan funksiya grafiklaridan qaysi biri faqat kamayuvchi funksiya grafigi?



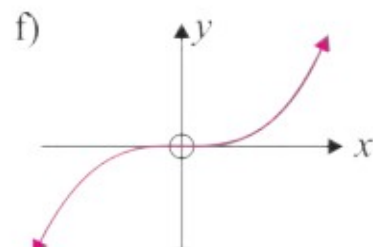
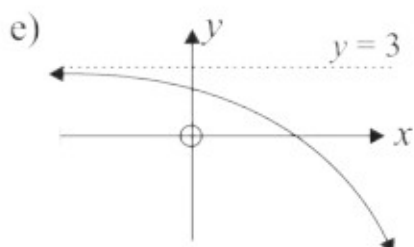
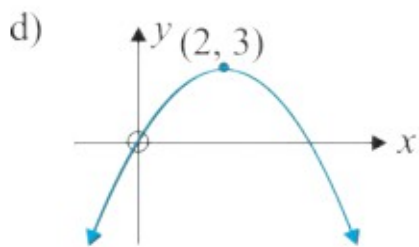
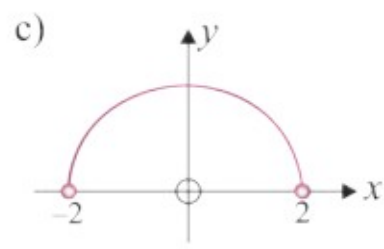
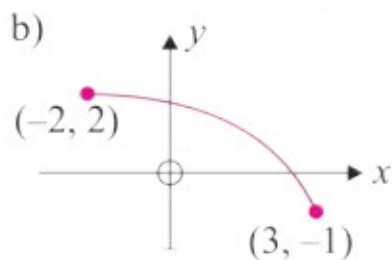
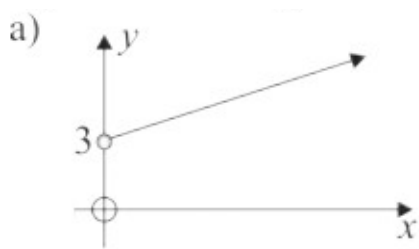
A) b, e. B) a, b, d. C) a, c, e, f. D) a, f

35. Berilgan funksiyalar grafiklari orasidan qaysilar kvadrat funksiyaning grafigi bo'ladi?



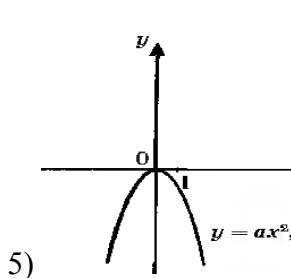
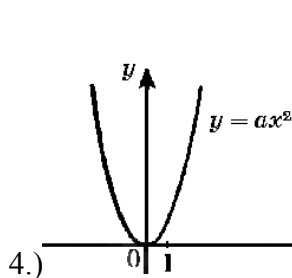
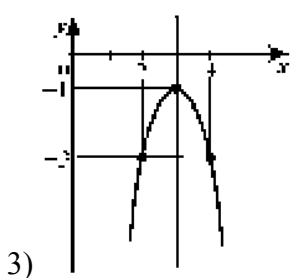
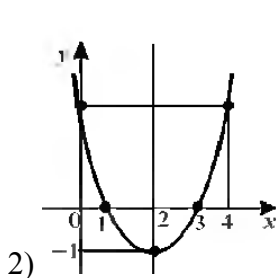
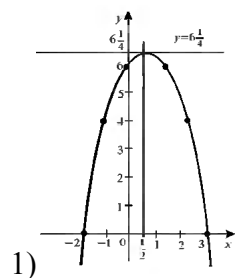
A)d. B)a.. C)c. D) b,e

36. Berilgan funksiyalar grafiklari orasidan qaysilar chiziqli funksiyaning grafigi bo'ladi?



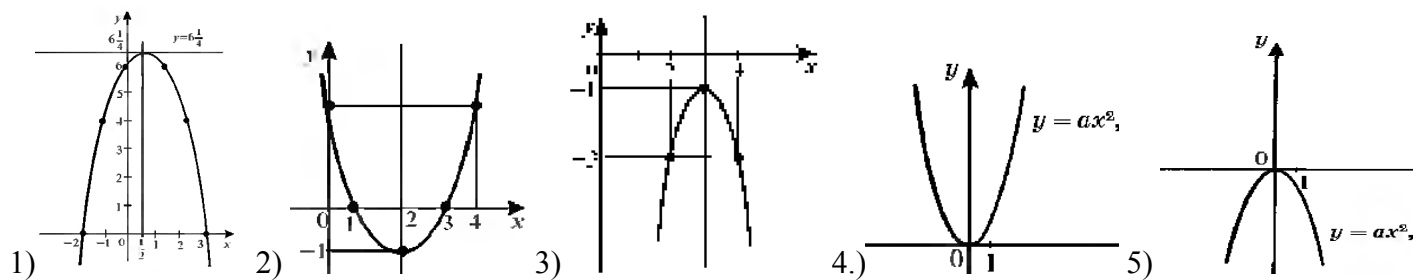
A)a. B) d. C) c. D) b,e

37. Berilgan kvadrat funksiya grafiklar orasidan $a > 0$ dagi grafiklarni ko'rsating:



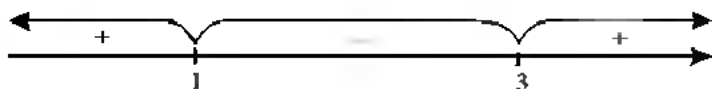
A)2,4. B) 1,2. C) 2,3,4. D)1,3,5

38. Berilgan kvadrat funksiya grafiklar orasidan $a < 0$ dagi grafiklarni ko'rsating:



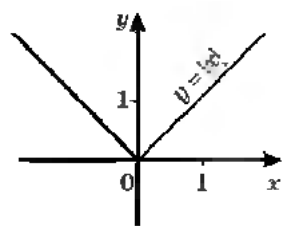
- A) 1,3,5. B) 1,2. C) 2,3,4. D) 2,4.

39. Quyidagi shaklda qaysi kvadrat tengsizlik yechimi aks ettirilgan?



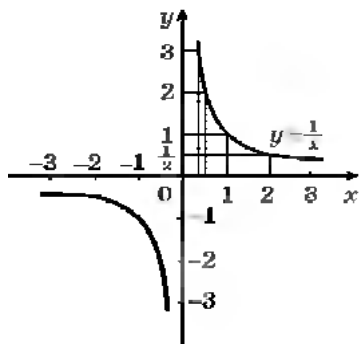
- A) $x^2 - 4x + 3 > 0$ B) $x^2 - 4x + 3 < 0$ C) $x^2 + 3x - 4 > 0$ D) $x^2 + 3x + 4 > 0$

40. Quyidagi shaklda qaysi funksiya grafigi aks ettirilgan?

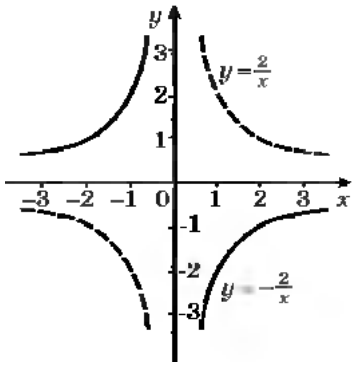


- A) $y = |x|$ B) $y = \frac{1}{x}$ C) $y = x^2$ D) $y = kx + b$

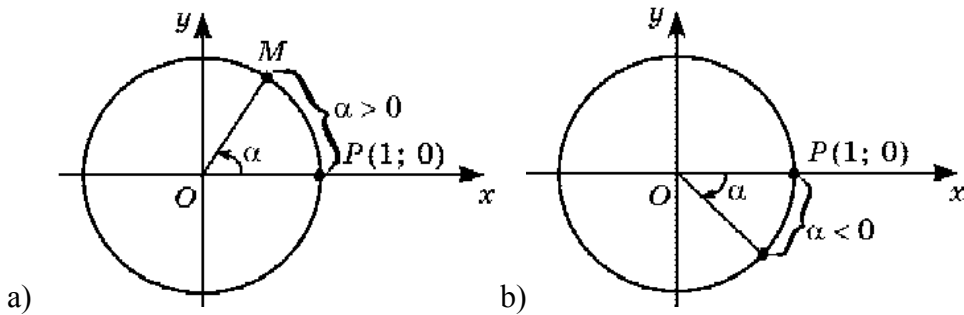
41. Quyidagi shaklda qaysi funksiya grafigi aks ettirilgan?



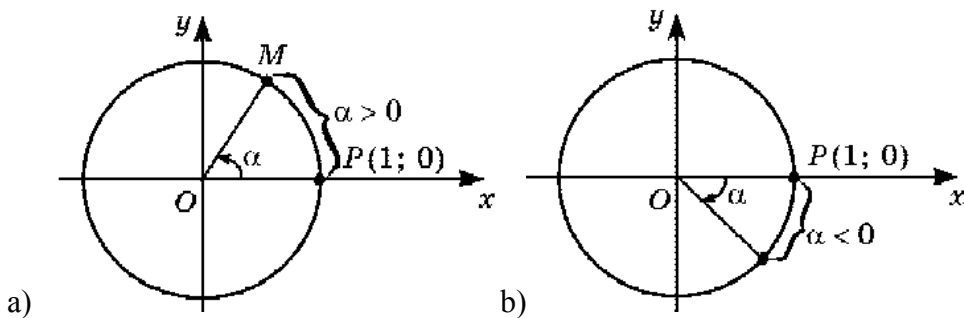
42. Quyidagi shaklda qaysi funksiya grafigi aks ettirilgan?



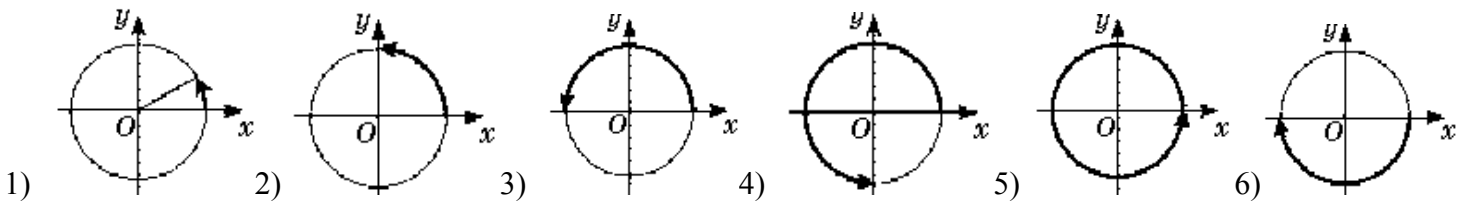
43. Shakllarning qaysida burish musbat harakatni ifodalaydi?



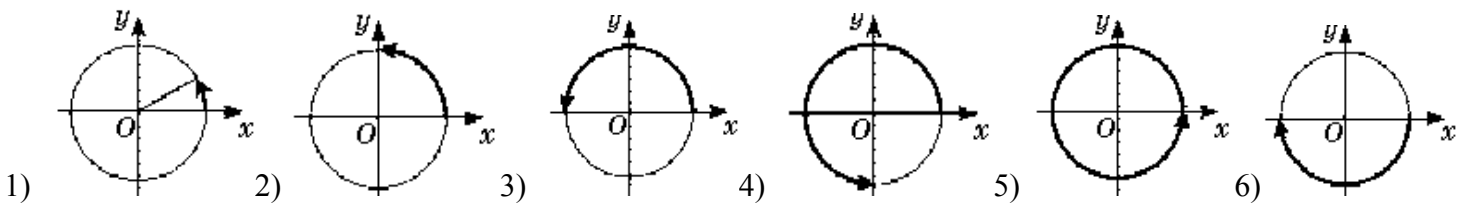
44. Shakllarning qaysida burish manfiy harakatni ifodalaydi?



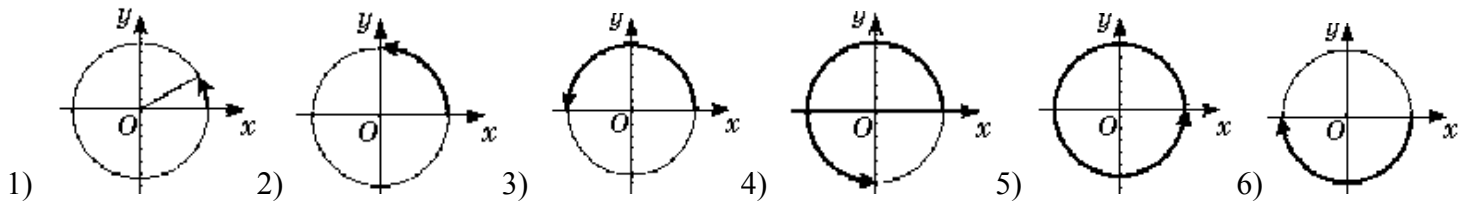
45. Berilgan qaysi rasmda burchak -180° ga burilgan?



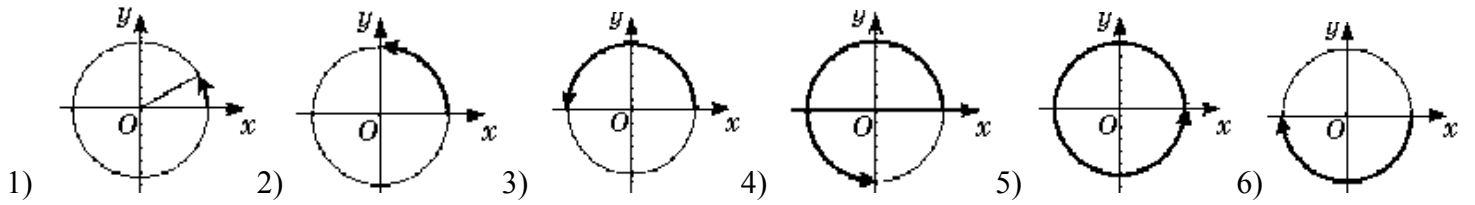
46. Berilgan qaysi rasmda burchak 180° ga burilgan?



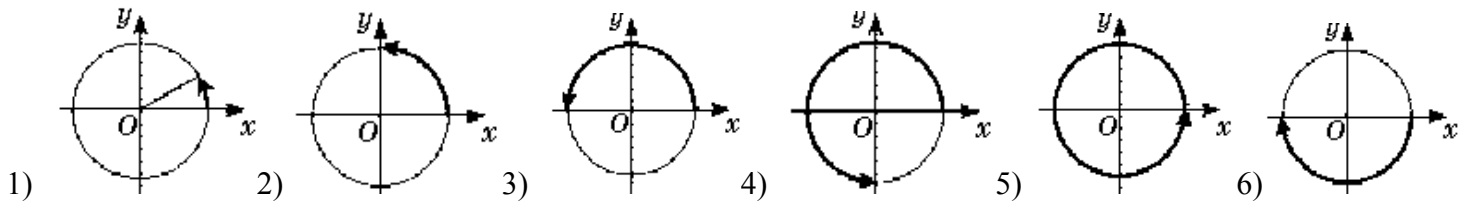
47. Berilgan qaysi rasmda burchak 360° ga burilgan?



48. Berilgan qaysi rasmda $P(1;0)$ nuqta $(0;-1)$ ga kelgan ga burilgan?



49. Berilgan qaysi rasmda $P(1;0)$ nuqta 30° ga burilgan?



50. Qaysi rasmda sinusning ishoralari ko'rsatilgan?

