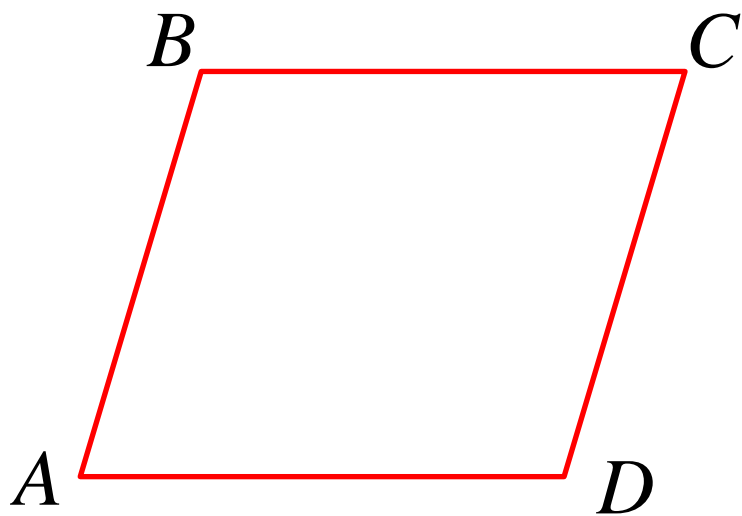


# Mavzu: Rombning yuzi



**Ta'rif** : Tomonlari teng bo'lgan parallellogram **romb** deyiladi

## Xossalari

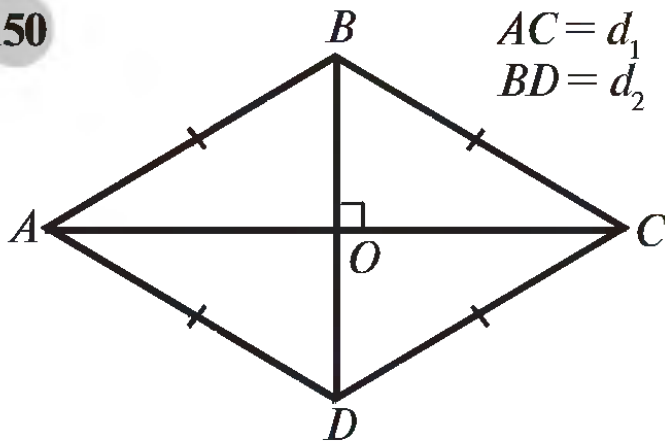


Rombning diagonallari o'zaro perpendikulyar.

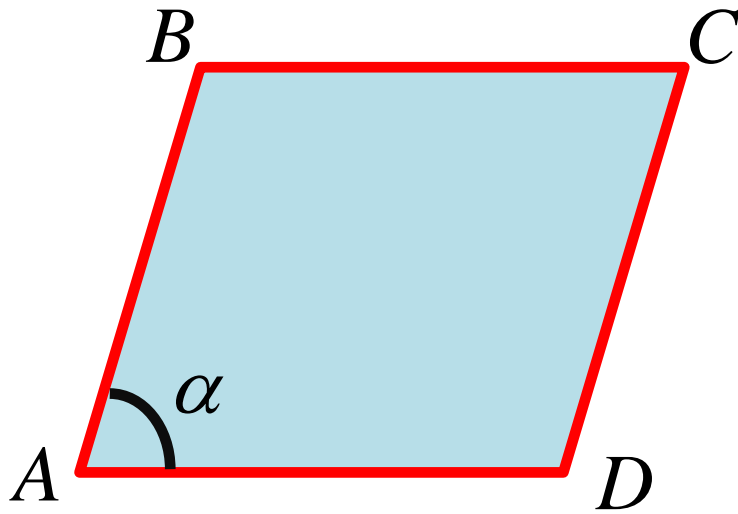


Rombning dioganali uning burchagini teng ikkiga bo'ladi.

150



$$S = \frac{1}{2} d_1 \cdot d_2$$

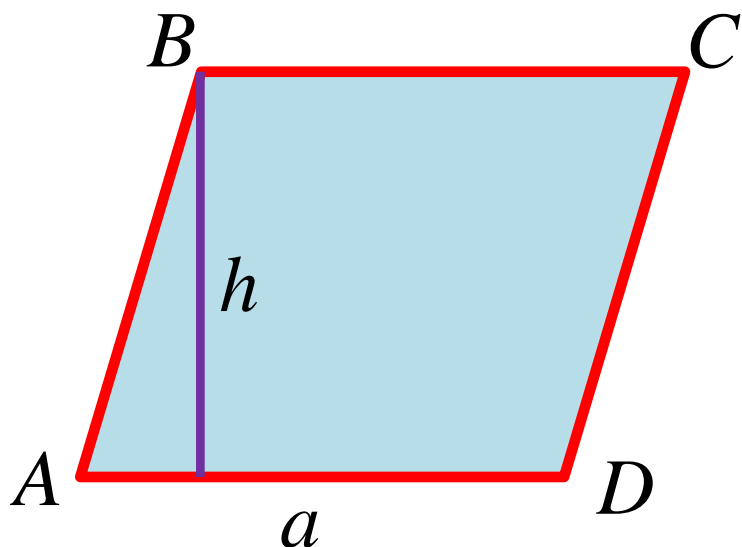


$$d_1^2 + d_2^2 = 4a^2$$

$$S = a^2 \cdot \sin \alpha$$

$$S = 2a \cdot r$$

$r$  - Ichki chizilgan aylana radiusi



$$S = ah$$

**1-masala.** ABCD rombning tomoni 20 sm ga, o'tkir burchagi esa  $30^{\circ}$  ga teng. Shu rombning yuzini toping.

**2-masala.** Rombning dioganallaridan biri ikkinchisidan 1,5 marta katta, rombning yuzi esa  $27 \text{ sm}^2$  ga teng. Shu rombning dioganallarini toping.

# Masalalar

1. Rombning tomoni 6 sm ga, yuzi esa  $18 \text{ sm}^2$  ga teng. Shu rombning katta burchagini toping.
2. Rombning burchaklarining nisbati 1:5 ga, tomoni esa  $a$  ga teng. Shu rombning yuzini toping.
3. Rombning tomoni 8 sm ga, o'tkir burchagi  $30^\circ$  ga teng. Shu rombning diagonalari ko'paytmasini toping.
4. Rombning diagonalari 3 : 4 kabi nisbatda, yuzi esa 384 ga teng. Uning tomonini toping.
5. Rombning diagonali tomoni bilan  $25^\circ$  li burchak tashkil qiladi. Rombning katta burchagini toping.
6. Rombning yuzi 24 ga, diagonalalaridan biri 6 ga teng. Uning tomonini toping.
7. Rombning tomoni 10 ga, diagonalalarining nisbati 4 : 3 ga teng. Rombning yuzini toping.

8. Rombning  $3\sqrt{3}$  ga teng bo'lgan balandligi tomonini teng ikkiga bo'ladi. Rombning perimetrini toping.

9. Rombning diagonallarini 3:4 kabi nisbatda, yuzi esa 384 ga teng. Uning tomonini toping.

10. Rombning balandligi 5 ga, diagonallarining ko'paytmasi 80 ga teng. Uning perimetrini toping.

A) 32                      B) 16                      C) 24                      D) 28                      E) 20

11. Perimetri  $2p$  ga, diagonallarining yig'indisi  $m$  ga teng bo'lgan rombning yuzini toping.

A)  $\frac{m^2 + p^2}{2}$                       B)  $\frac{m^2 - p^2}{2}$                       C)  $\frac{m^2 + p^2}{4}$                       D)  $\frac{m^2 - p^2}{4}$                       E)

$\frac{m^2 \cdot p^2}{4}$

12. Perimetri 14 ga teng bo'lgan ABCD romb berilgan,  $A_1B_1C_1D_1$  to'rtburchak ushbu rombning o'rtalarini tutashtiradi.  $A_2B_2C_2D_2$  to'rtburchak  $A_1B_1C_1D_1$  to'rtburchak o'rtalarini tutashtiradi.  $A_2B_2C_2D_2$  to'rtburchakning perimetrini toping.

13. Rombning kichik diagonali  $\sqrt[4]{3}$  ga, yuzi 1,5 ga teng. Uning o'tmas burchagini toping.

A)  $150^{\circ}$                       B)  $120^{\circ}$                       C)  $135^{\circ}$                       D)  $110^{\circ}$                       E)  $140^{\circ}$

13. Rombning tomoni 6 ga, yuzi 9 ga teng. Rombning diagonallari yig'indisini toping.

A) 12                      B) 11                      C) 10                      D) 9,5                      E) 11,5

14. Rombning tomoni 6 ga, o'tkir burchagi  $30^0$  ga teng. Uning diagonallari ko'paytmasini toping.

A) 27                      B) 18                      C) 42                      D) 36                      E) 48

15. Rombning yuzi 16 ga, perimetri 12 ga teng. Uning diagonallari yig'indisini toping.

A) 8                      B) 12                      C) 11                      D) 10                      E) 9

16. Rombning o'tmas burchagi  $120^0$  ga, katta diagonali  $d\sqrt{3}$  ga teng. Rombning yuzini hisoblang.

A)  $\frac{3}{4}d^2\sqrt{3}$                       B)  $0,6d^2\sqrt{3}$                       C)  $3d^2\sqrt{3}$                       D)  $\frac{1}{2}d^2$                       E)  $0,9d^2$

17. Rombning tomoni 5 ga, diagonallaridan biri 6 ga teng. Rombning yuzini toping.

A) 24                      B) 28                      C) 30                      D) 20                      E) 22

18. Agar rombning tomoni 10 ga, burchaklaridan biri esa  $150^0$  ga teng bo'lsa, uning yuzi qanchaga teng bo'ladi?

A) 100                      B) 80                      C) 90                      D) 50                      E) 60