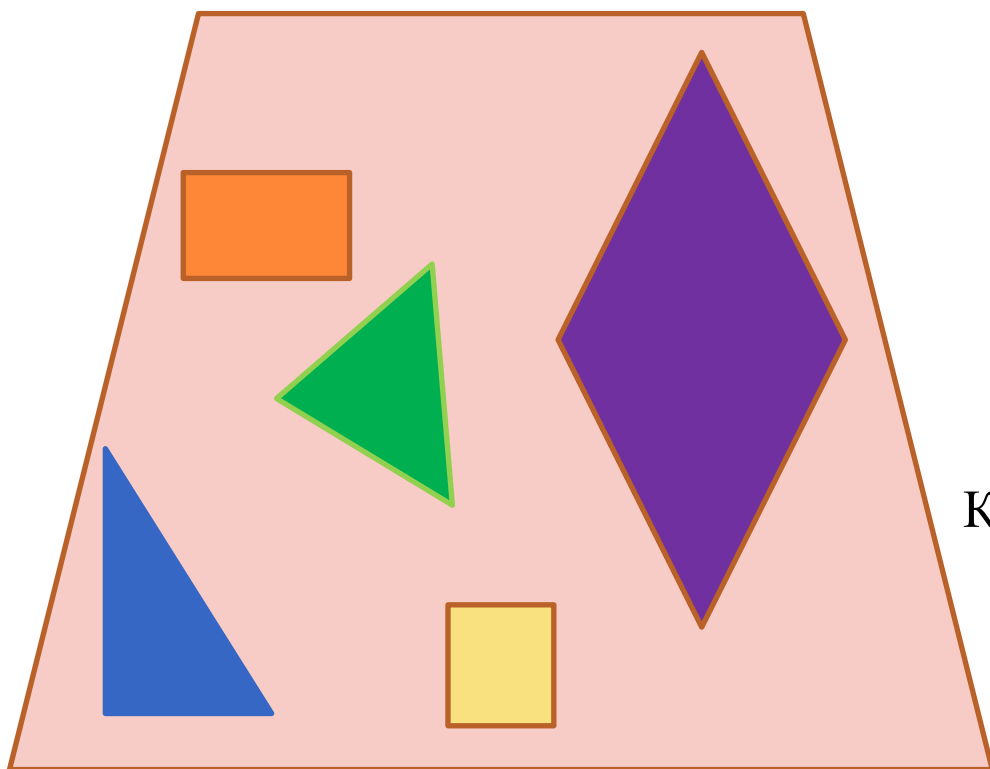


Площадь плоских фигур

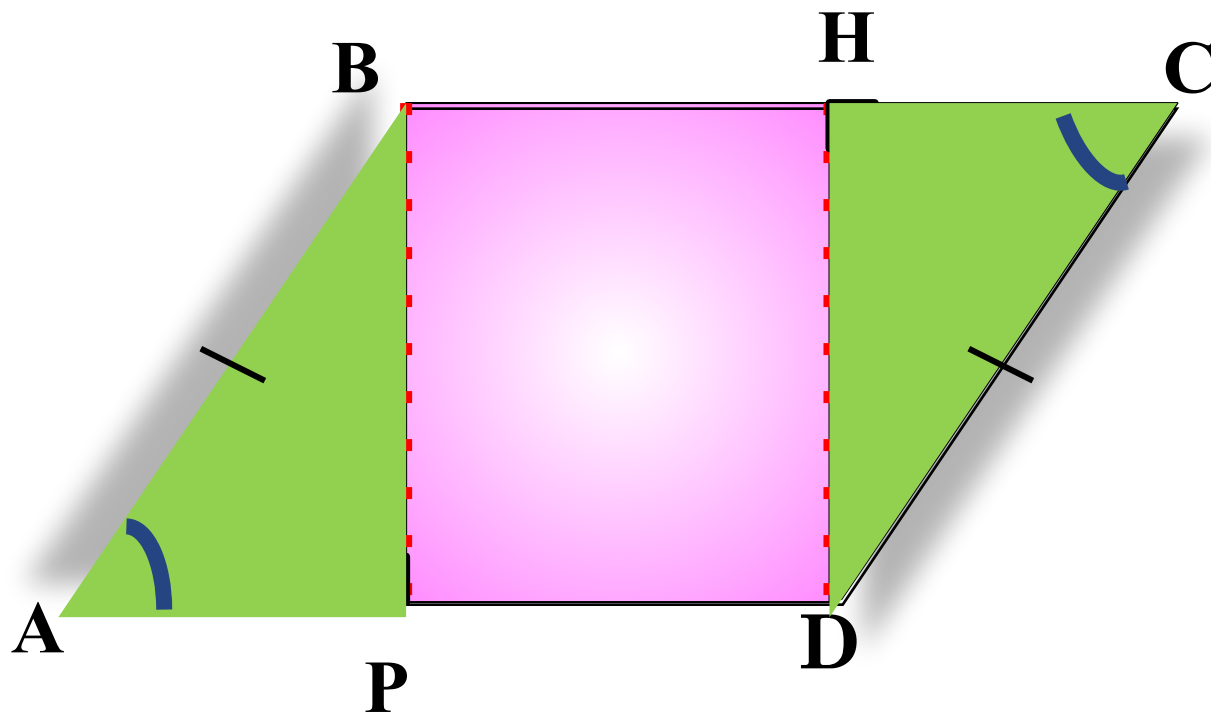
8 класс

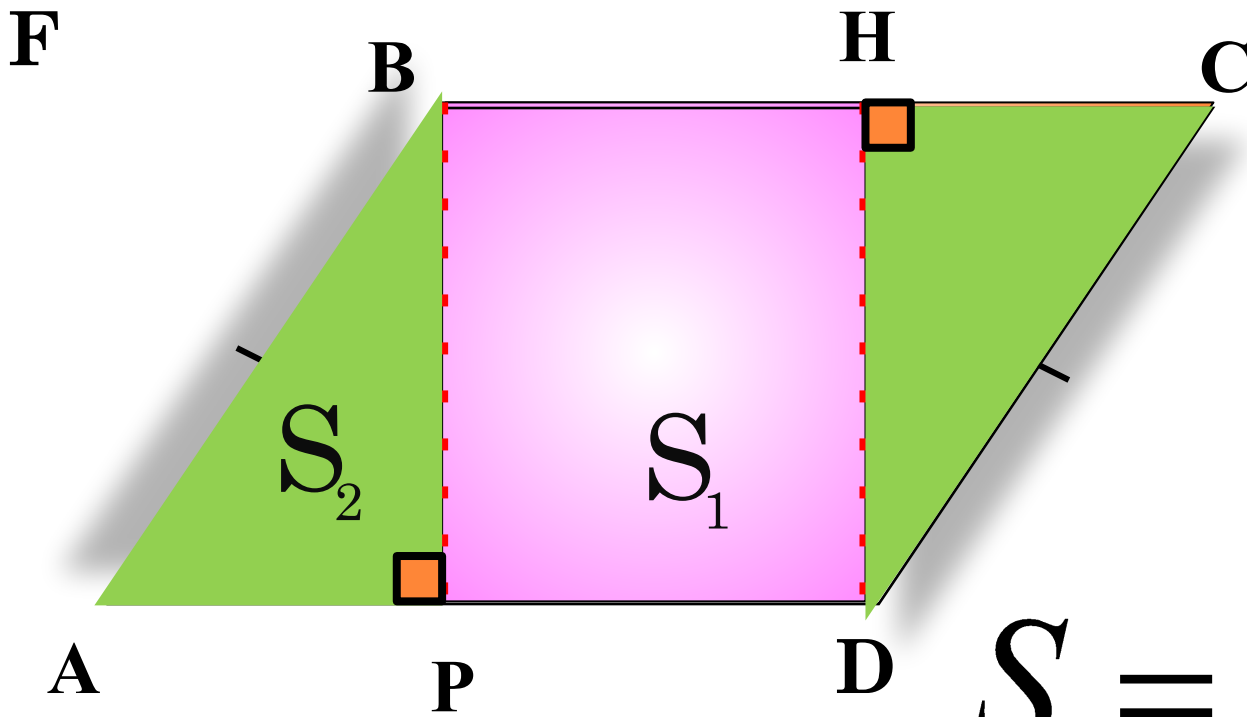


МБОУ СОШ № 29
учитель математики
Кумушбаева Лиана Анатольевна



Площадь параллелограмма





$$S = S_1 + S_2$$

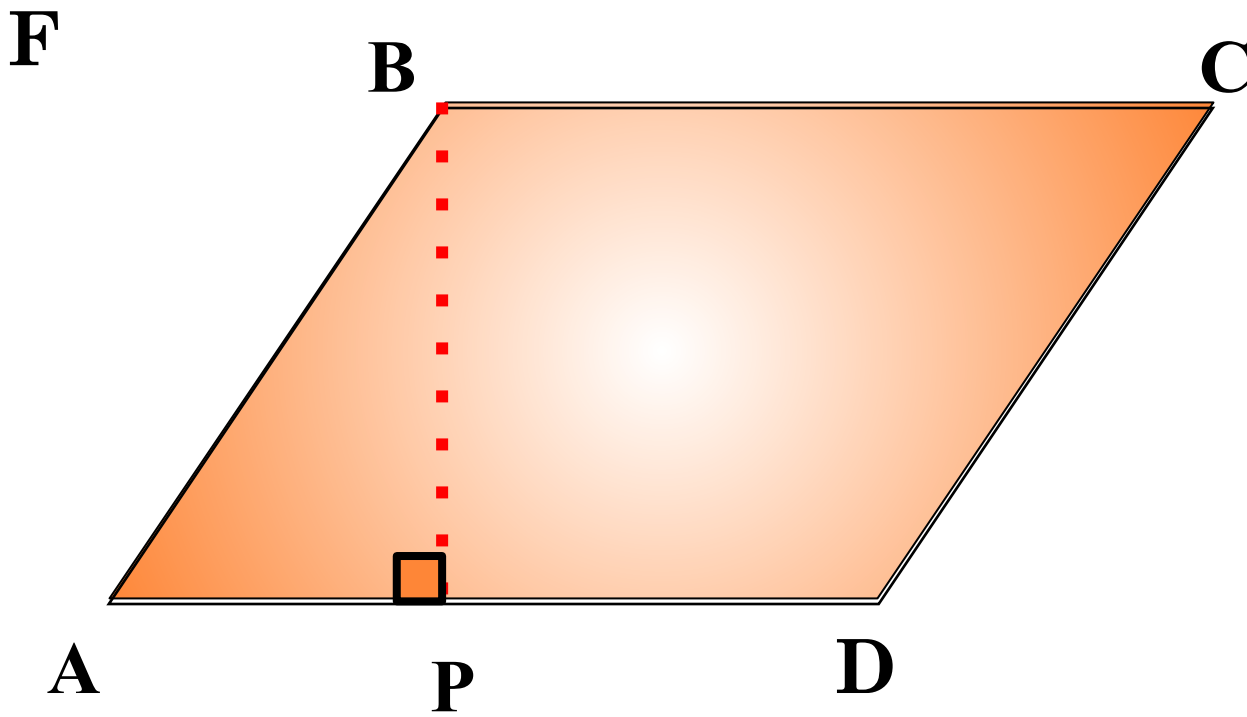
$$S_1 = PD \cdot PB$$

$$S_2 = AP \cdot PB$$

$$S = PD \cdot PB + AP \cdot PB =$$

$$= PB(PD + AP) = PB \cdot AD$$

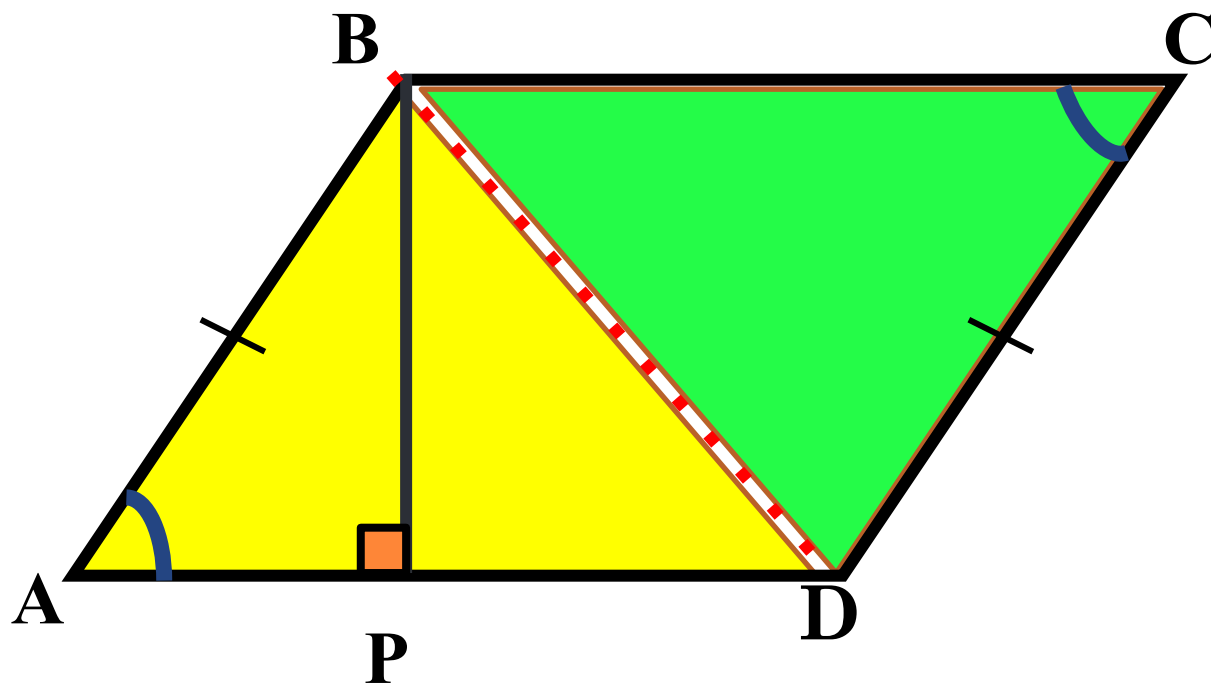




$$S = PB \cdot AD$$



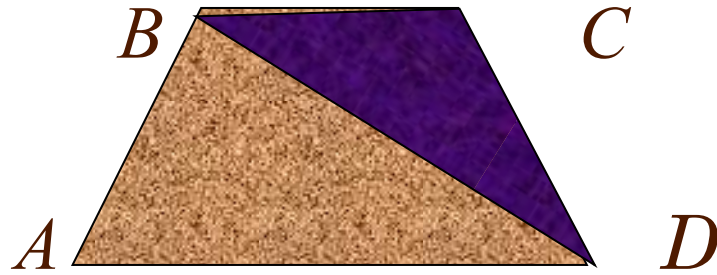
Площадь треугольника



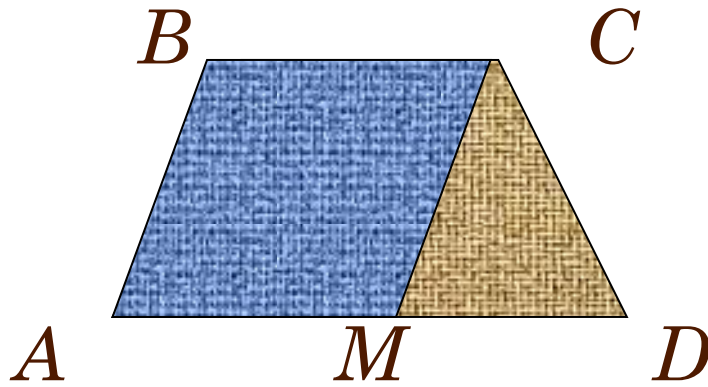
Площадь трапеции



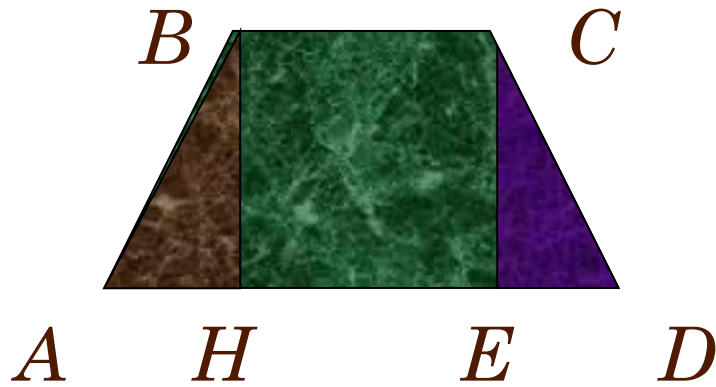
1

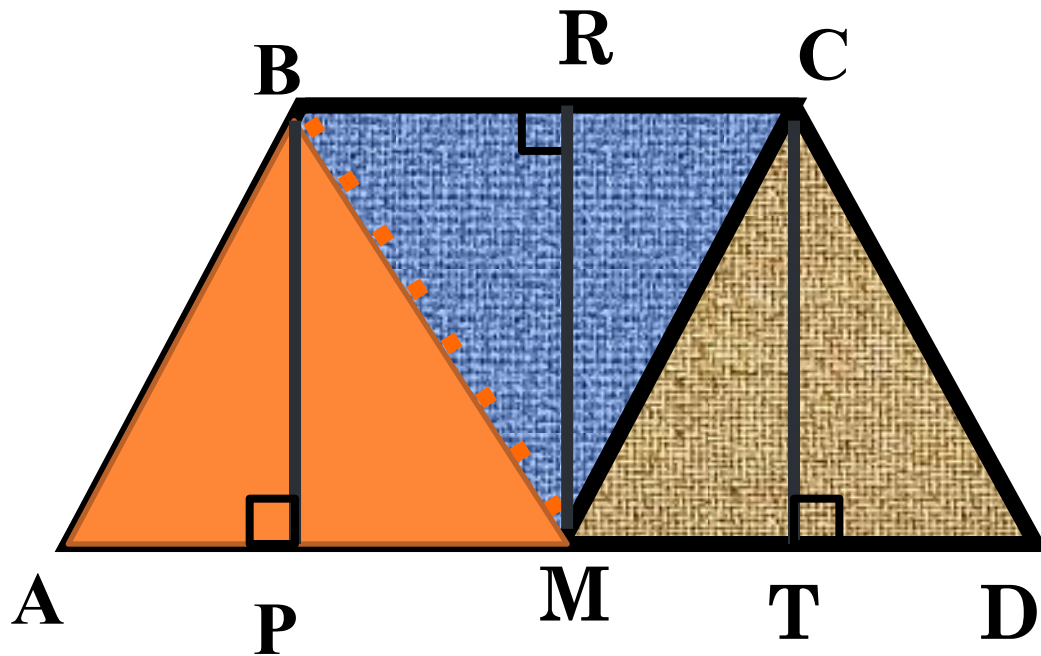


2



3





$$S_{ABCD} = S_{ABM} + S_{BMC} + S_{MCD}$$

$$S_{ABM} = \frac{1}{2} AM \cdot BP \quad S_{BMC} = \frac{1}{2} BC \cdot MR$$

$$S_{MCD} = \frac{1}{2} MD \cdot CT$$



$$S_{ABCD} = \frac{1}{2} AM \cdot BP + \frac{1}{2} BC \cdot MR + \frac{1}{2} MD \cdot CT$$

$$BP = MR = CT$$

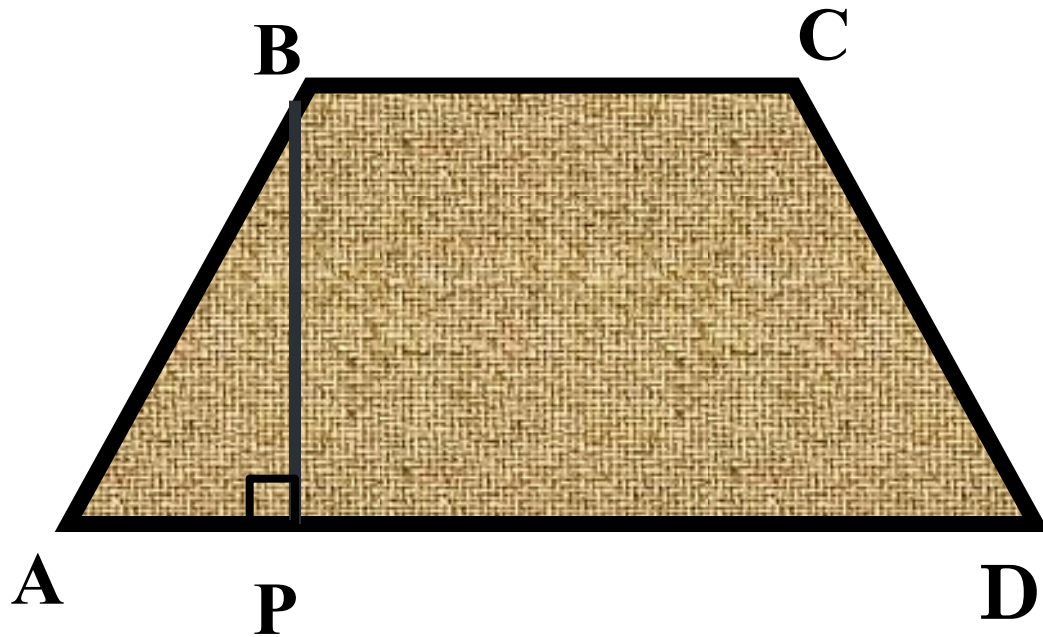
$$S_{ABCD} = \frac{1}{2} AM \cdot BP + \frac{1}{2} BC \cdot BP + \frac{1}{2} MD \cdot BP$$

$$S_{ABCD} = \frac{1}{2} BP (AM + BC + MD)$$

$$AD = AM + MD$$

$$S_{ABCD} = \frac{1}{2} BP (AD + BC)$$

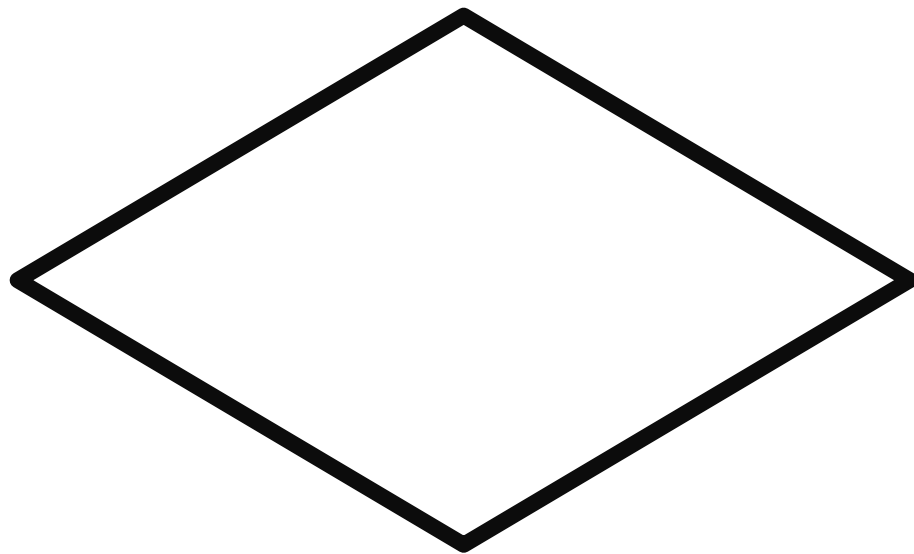


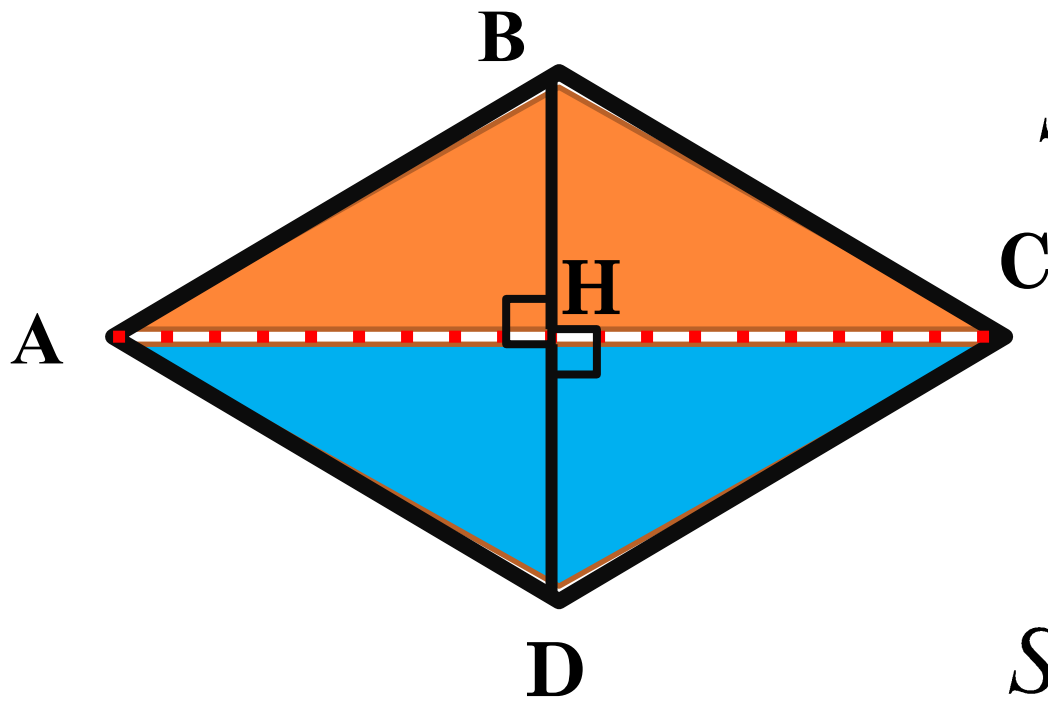


$$S_{ABCD} = \frac{1}{2} BP(AD + BC)$$



Площадь ромба





$$S_{ABCD} = S_{ABC} + S_{ACD}$$

$$S_{ABC} = \frac{1}{2} AC \cdot BH$$

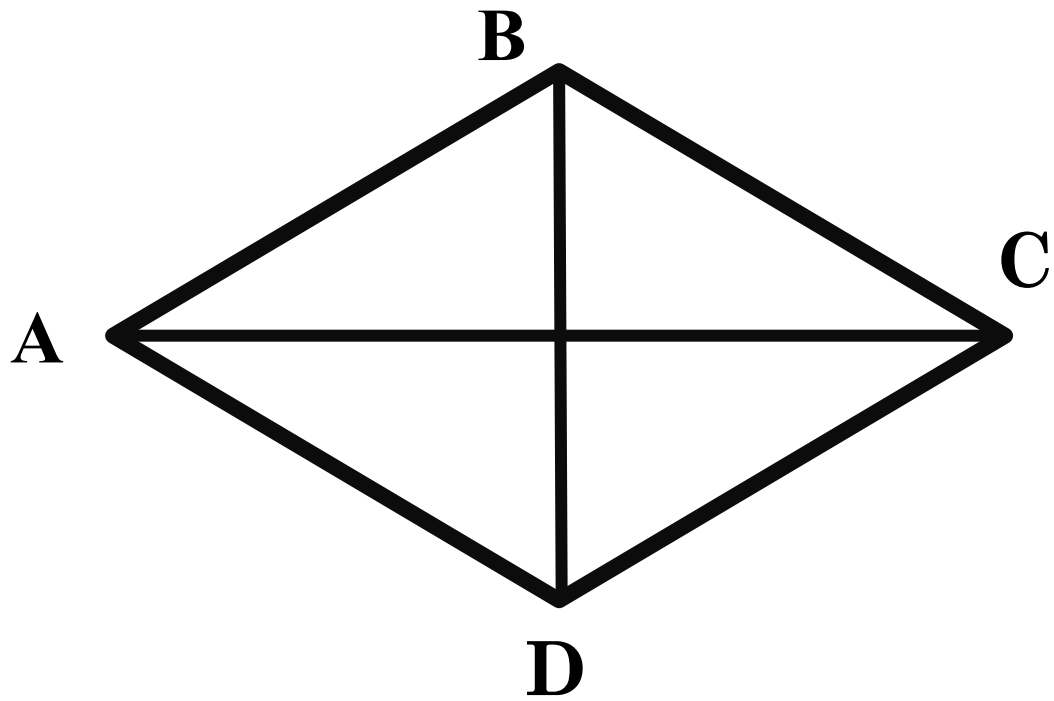
$$S_{ADC} = \frac{1}{2} AC \cdot DH$$

$$S_{ABCD} = \frac{1}{2} AC \cdot BH + \frac{1}{2} AC \cdot DH$$

$$BD = BH + HD$$

$$S_{ABCD} = \frac{1}{2} AC(BH + HD) = \frac{1}{2} BD \cdot AC$$

$$S_{ABCD} = \frac{1}{2} BD \cdot AC$$

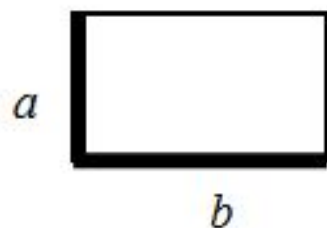


$$S_{ABCD} = \frac{1}{2} BD \cdot AC$$

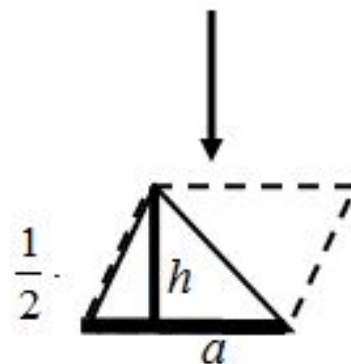
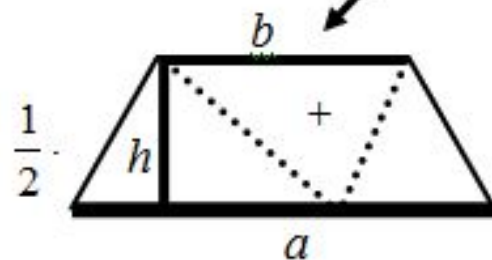


Площадь
многоугольников

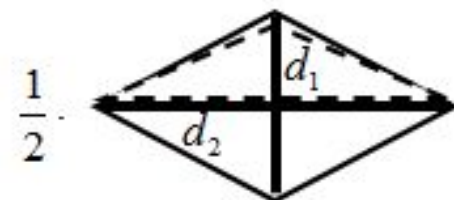
по сторонам



по высоте и стороне



по диагоналям



Спасибо за внимание!

