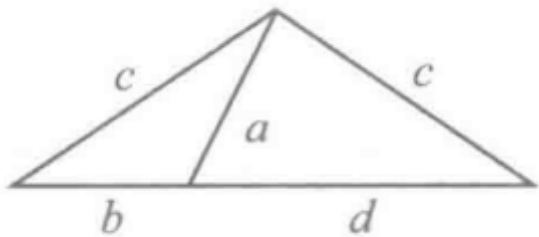


无需语言的证明 4

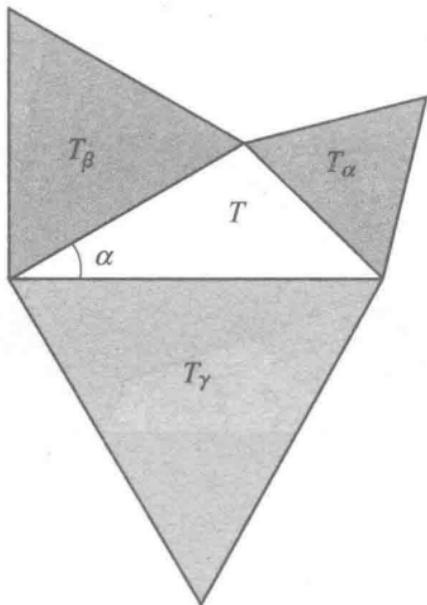
第一章 几何与代数

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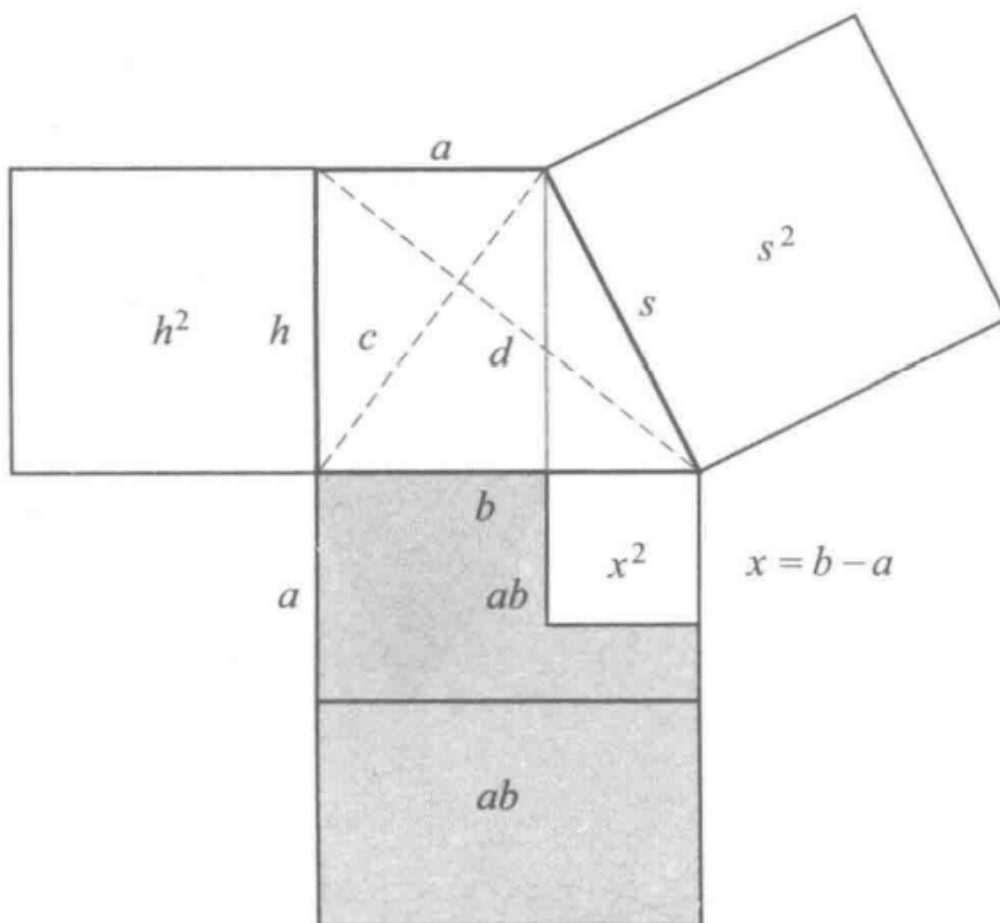
$$c^2 = a^2 + bd.$$



$$T_\alpha = T_\beta + T_\gamma - \sqrt{3}T \cot \alpha.$$

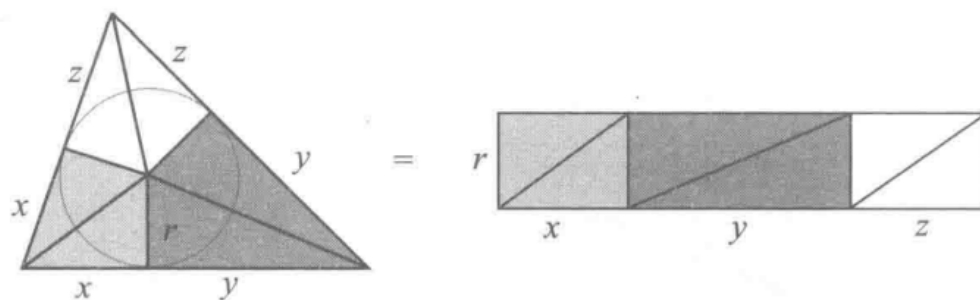


$$c^2 + d^2 = s^2 + h^2 + 2ab.$$

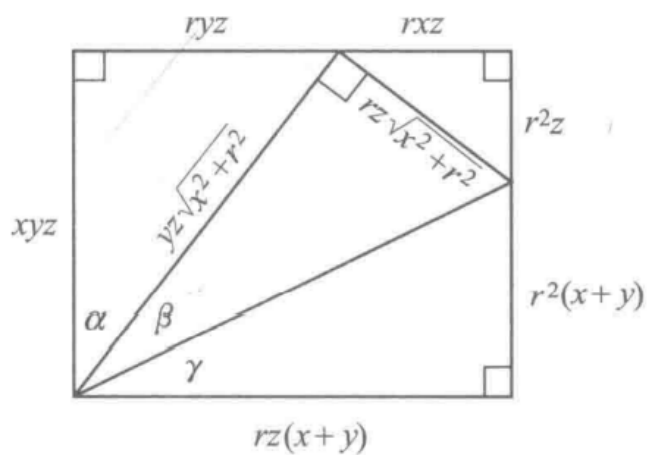


$$a^2 + b^2 + c^2 = d^2 + e^2$$

$$1. K = r(x + y + z) = rs.$$

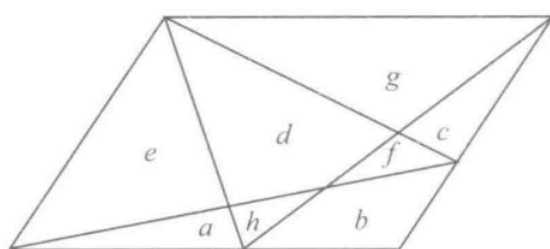


$$2. xyz = r^2(x + y + z) = r^2 s.$$



$$3. \therefore K^2 = r^2 s^2 = sxyz = s(s-a)(s-b)(s-c).$$

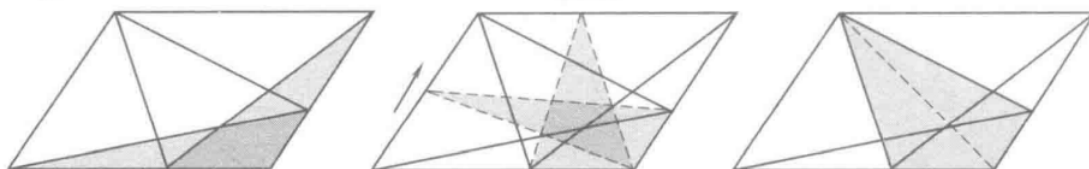
平行四边形分割中的相等面积



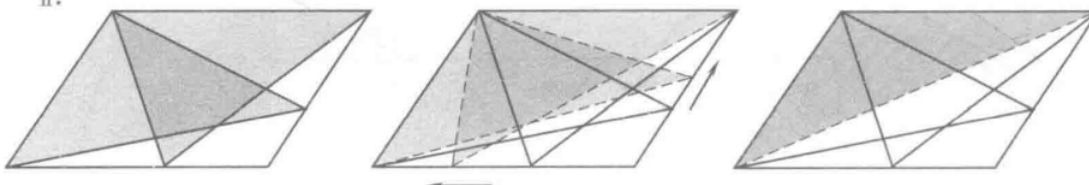
$$\text{I. } a + b + c = d$$

$$\text{II. } e + f = g + h$$

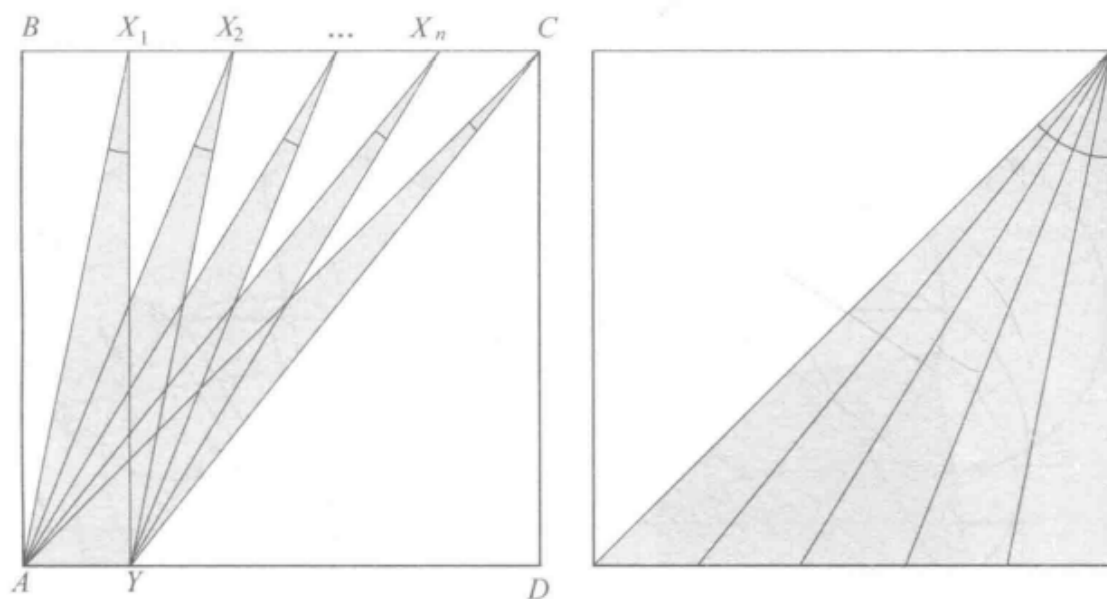
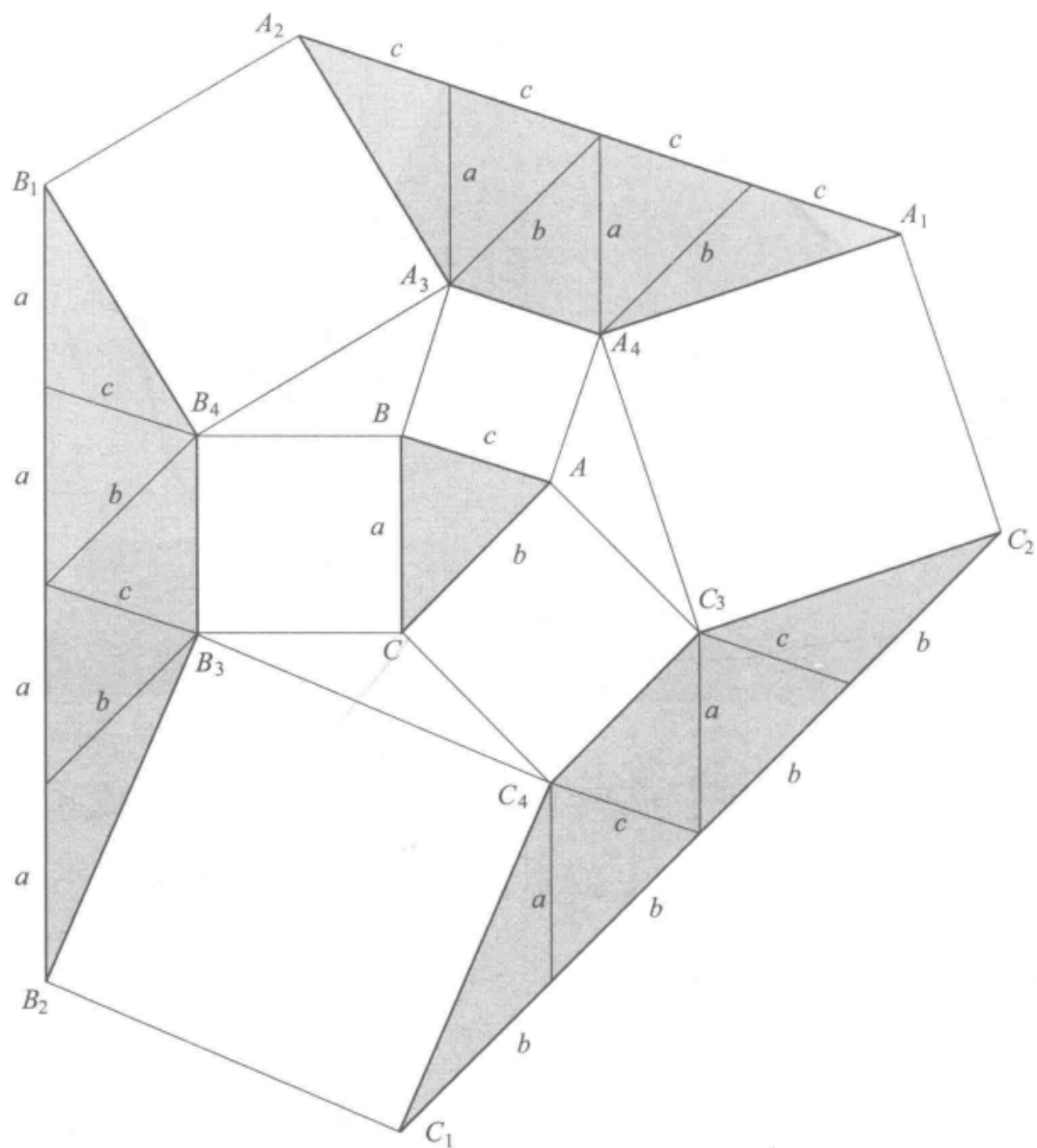
I.



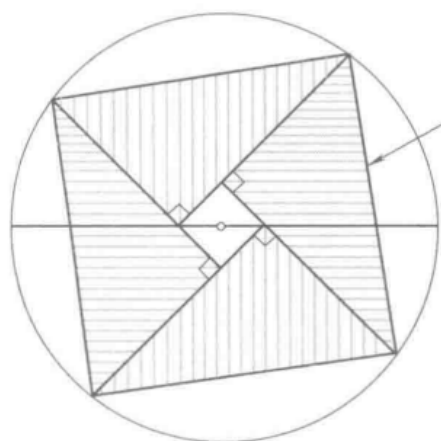
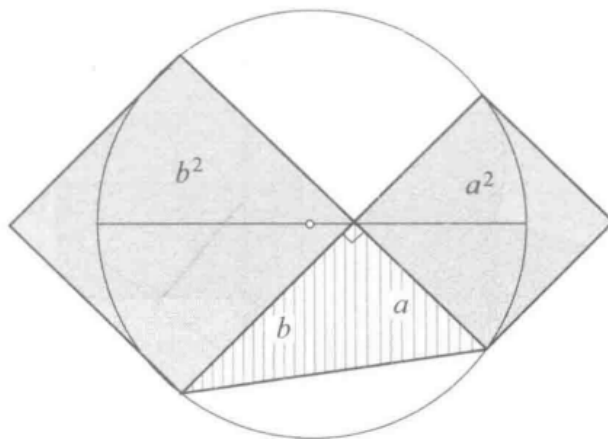
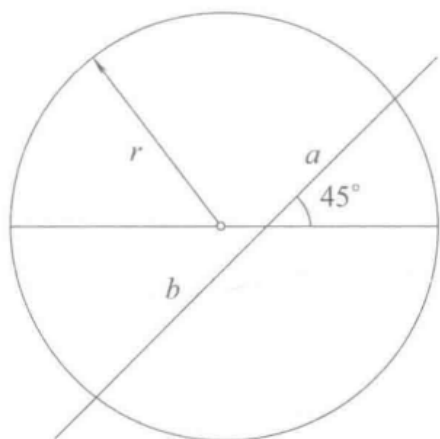
II.



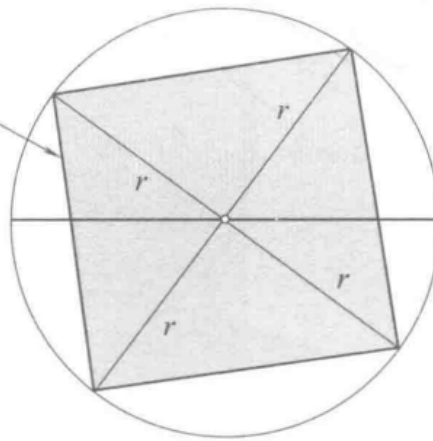
$$S_{A_1A_2A_3A_4} = 5S_{ABC}.$$



如果圆的一条直径与一条弦的夹角为 45° , 则 $a^2 + b^2 = 2r^2$.

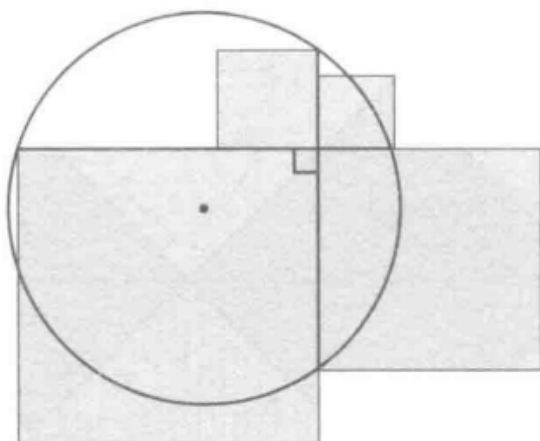


$$\sqrt{a^2 + b^2}$$



$$a^2 + b^2 = 2r^2.$$

可推广至圆锥曲线.



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