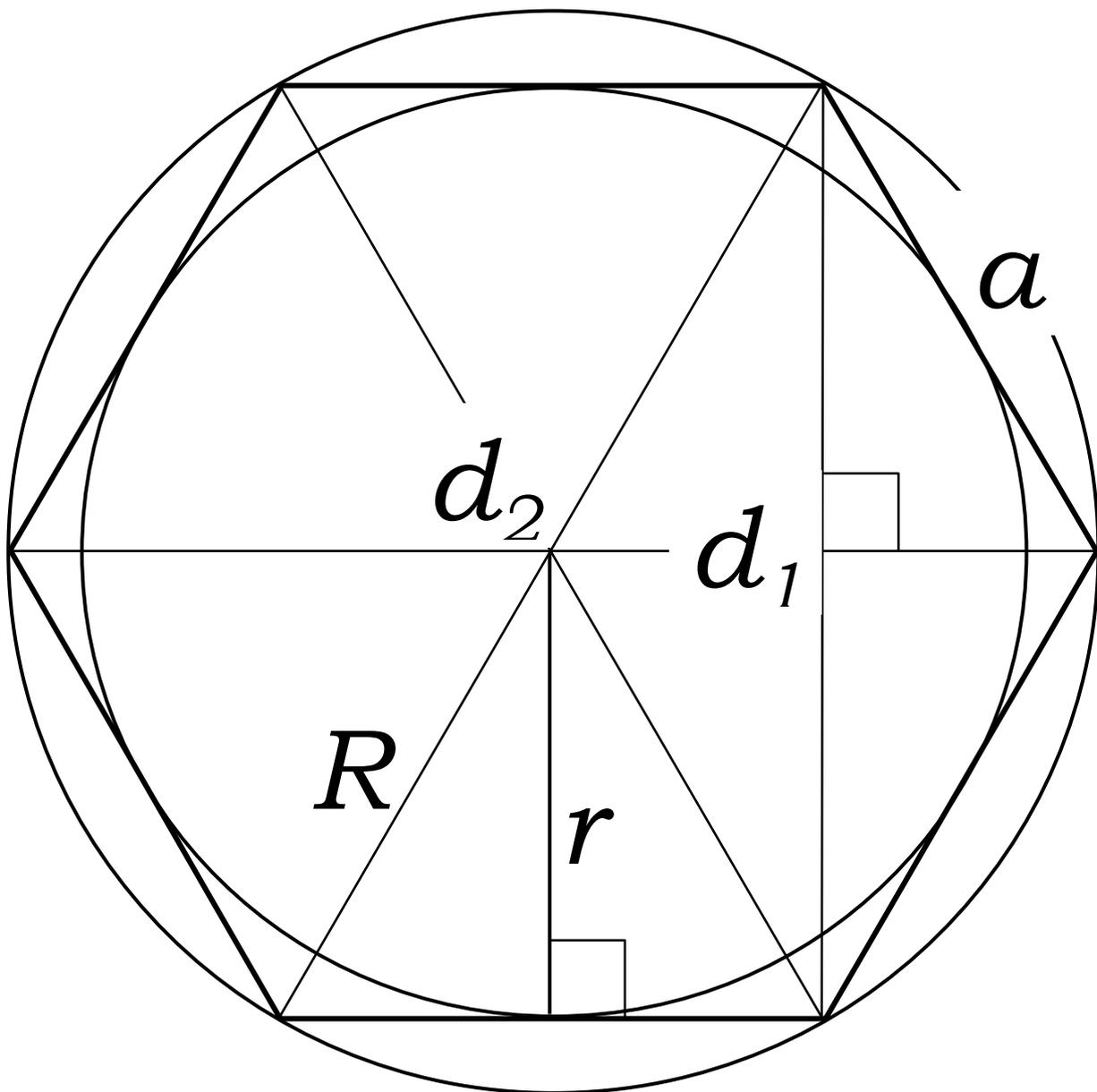


Правильный шестиугольник



$$S = \frac{3a^2 \sqrt{3}}{2} = \frac{3R^2 \sqrt{3}}{2} = 2r^2 \sqrt{3}$$

$$R = a = \frac{2r}{\sqrt{3}} = \frac{1}{2} d_2; \quad r = \frac{a\sqrt{3}}{2} = \frac{R}{2}$$

$$d_2 = 2a = 2R; \quad d_1 = a\sqrt{3} = 2r$$