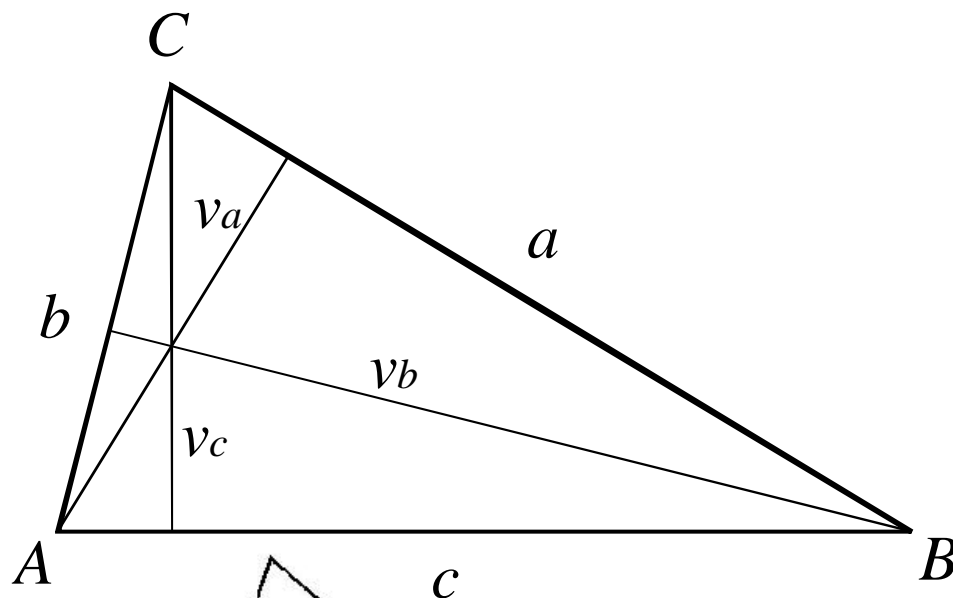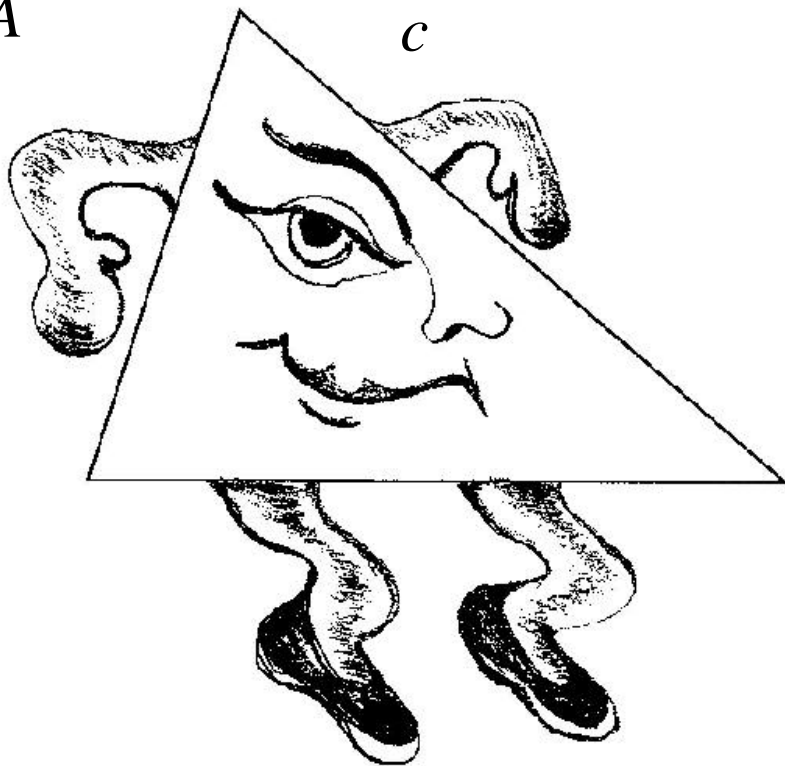# **TROKUT**

$$O = a + b + c$$

$$P = \frac{a \cdot v_a}{2}$$

$$P = \frac{b \cdot v_b}{2}$$

$$P = \frac{c \cdot v_c}{2}$$

Zbroj unutrašnjih kutova trokuta je 180^0.

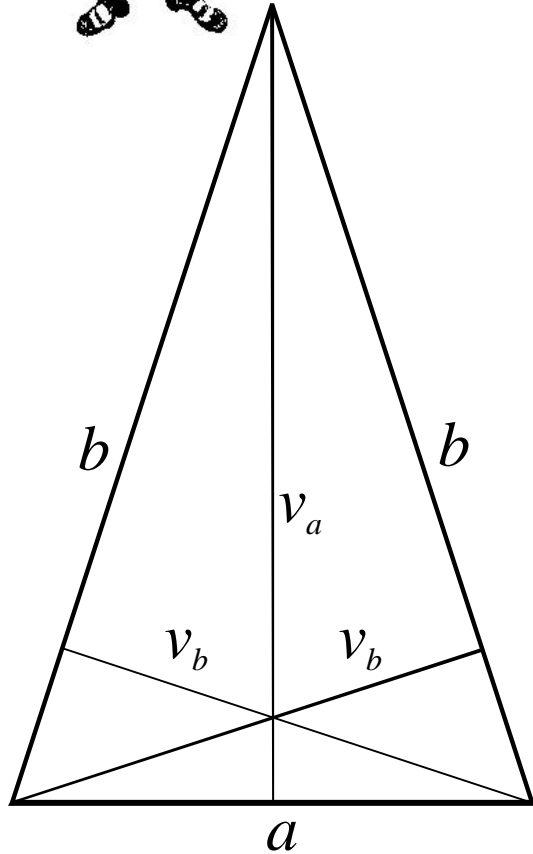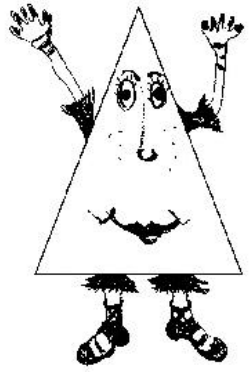Zbroj vanjskih kutova trokuta je 360^0.
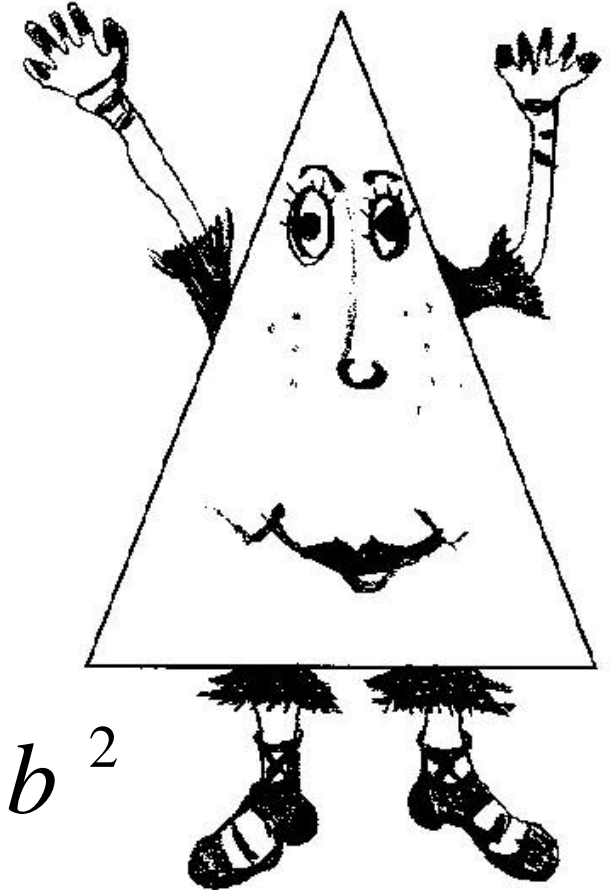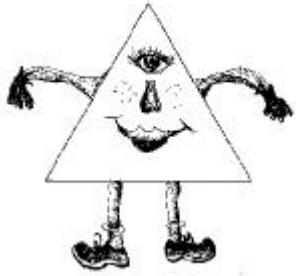
JEDNAKOKRACNI TROKUT

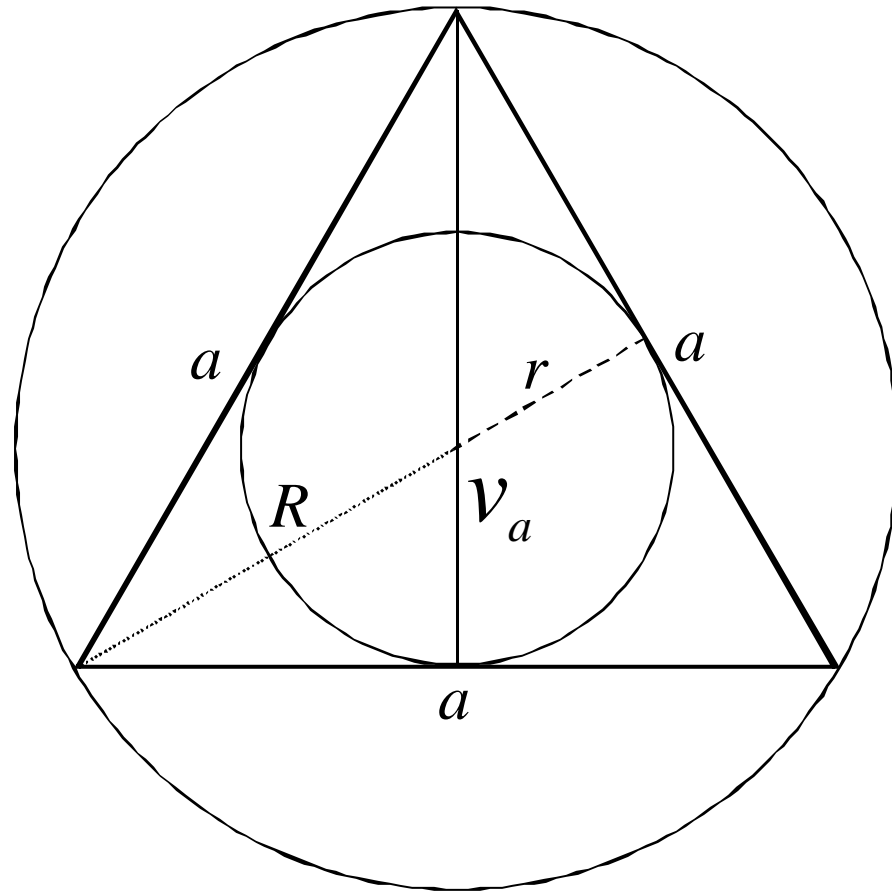$$O = a + 2b$$

$$P = \frac{a \cdot v_a}{2}$$

$$P = \frac{b \cdot v_b}{2}$$

$$\left(\frac{a}{2}\right)^2 + v_a^{\,2} = b^{\,2}$$
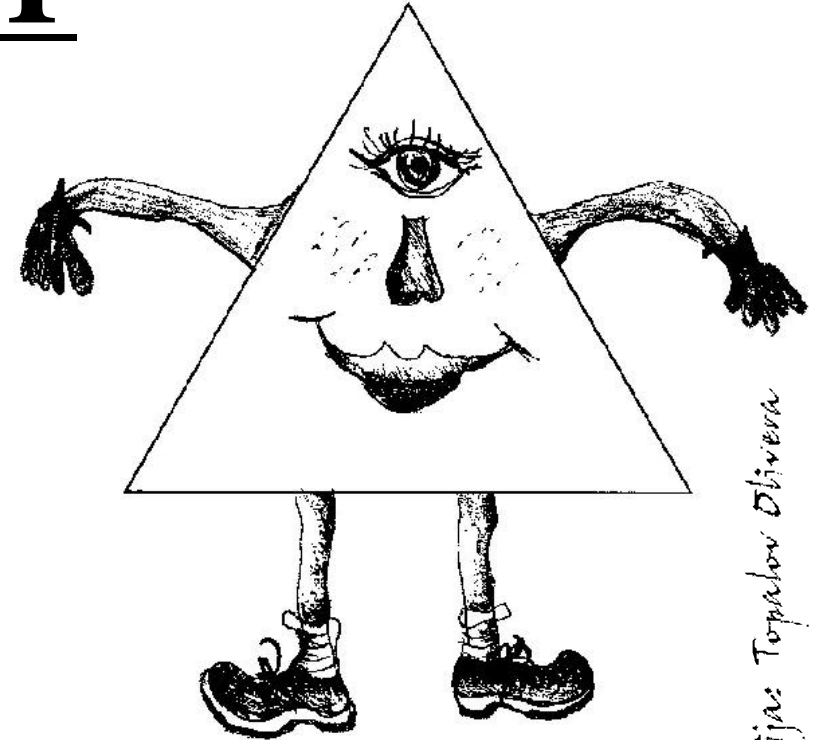
JEDNAKOSTRANICNI TROKUT

$$O = 3a$$

$$P = \frac{a \cdot v_a}{2}$$

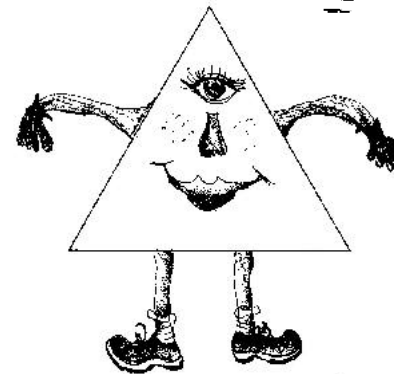$$v_a = \frac{a\sqrt{3}}{2}$$

$$P = \frac{a^2\sqrt{3}}{4}$$

$$r = \frac{1}{3}v_a = \frac{a\sqrt{3}}{6}$$
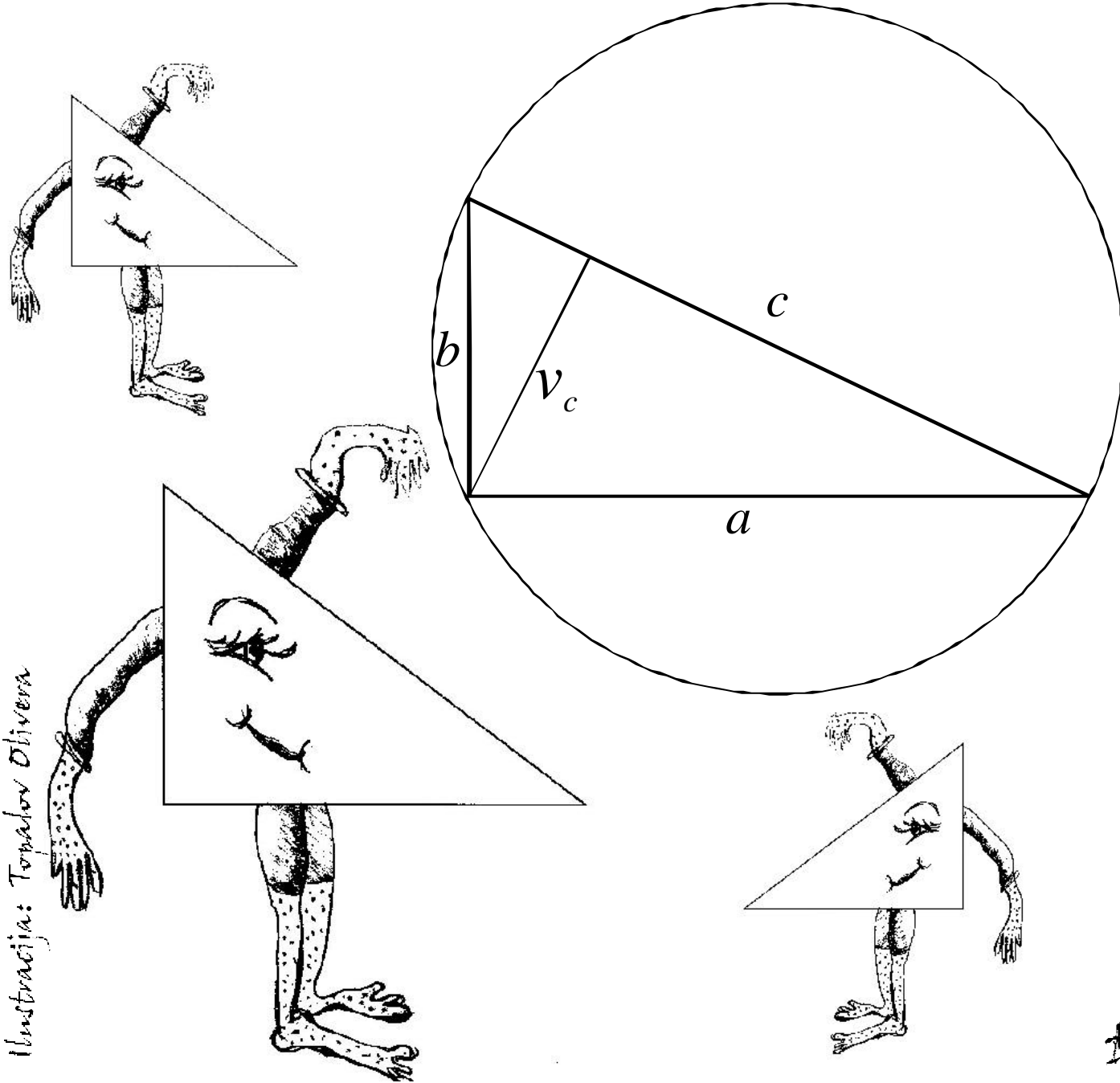
$$R = \frac{2}{3}v_a = \frac{a\sqrt{3}}{3}$$

PRAVOKUTNI TROKUT

$$O = a + b + c$$

$$P = \frac{a \cdot b}{2}$$

$$P = \frac{c \cdot v_c}{2}$$

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

$$R = \frac{c}{2}$$

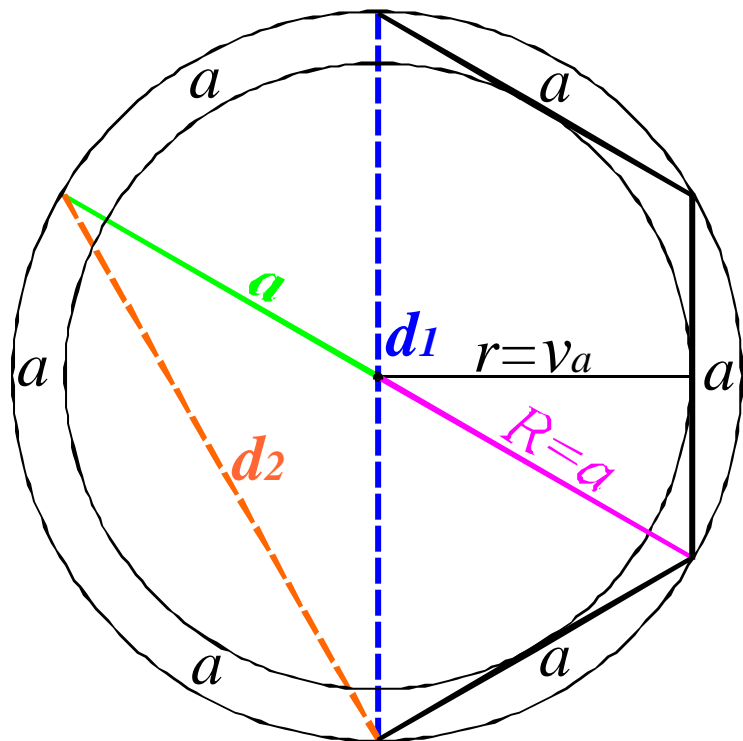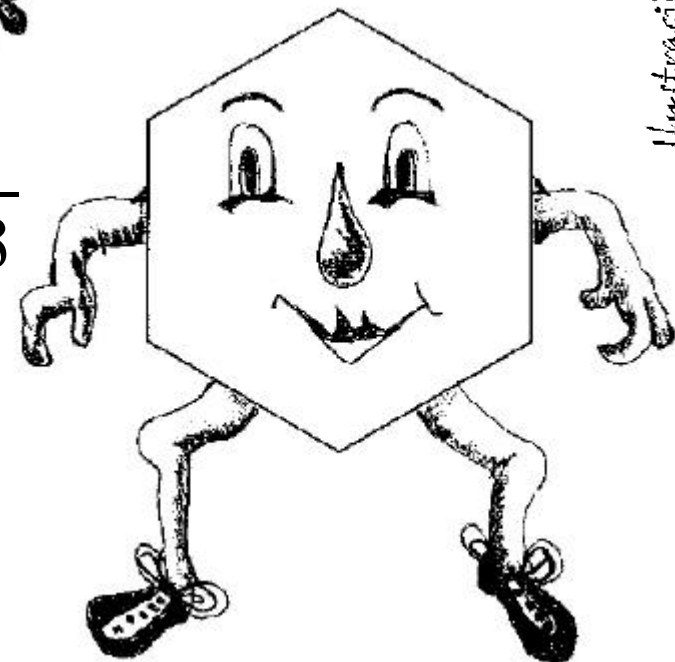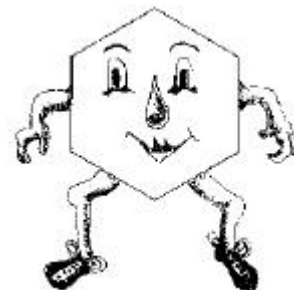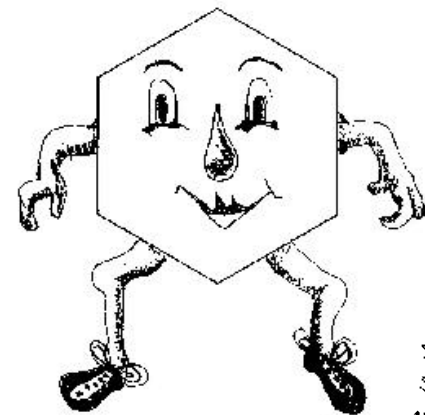# PRAVILNI ŠESTEROKUT

$$O = 6a$$

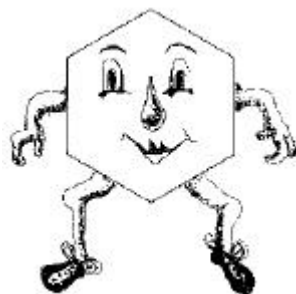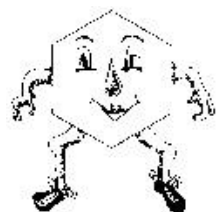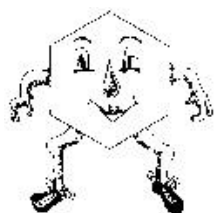$$P = 6 \cdot \frac{a^2 \sqrt{3}}{4} = \frac{3a^2 \sqrt{3}}{2}$$

$$R = a$$

$$r = \frac{a \sqrt{3}}{2}$$

$$d_1 = 2a$$

$$d_2 = 2 \cdot \frac{a \sqrt{3}}{2} = a \sqrt{3}$$

In the figure: a, a, a, a, a, a, a, d_1, d_2, $R=a$, $r = v_a$