3.92
к4

$$S = 2R^2 \sin 60 \sin 75 \sin 45 = 2R^2 \cdot \frac{\sqrt{3}}{2} \sin 75 \sin 45 = 8 \cdot \frac{\sqrt{3}}{2} \sin 75 \sin 45 =$$

$$= 4\sqrt{3} \sin 75 \sin 45 = 2\sqrt{3} \left[\cos 30 - \cos 120 \right] = 2\sqrt{3} \left[\frac{\sqrt{3}}{2} + \frac{1}{2} \right] = 3 + \sqrt{3}$$