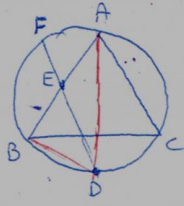


3:24
5



$$AB = \sqrt{3}a \quad (\text{נל} \sqrt{3} \text{ מול } 2 \text{ רגלי})$$

$$AE = BE = \frac{\sqrt{3}}{2}a$$

30, 60, 90 גר מול

$$\triangle ABD: \quad \frac{BD}{2R} = \sin 30^\circ \rightarrow BD = a$$

$$\triangle BED: \quad \angle B = 90^\circ \quad (\text{גוף } \triangle ABC)$$

$$ED = \sqrt{BE^2 + BD^2} = \sqrt{\frac{3}{4}a^2 + a^2} = \frac{\sqrt{7}}{2}a$$

$$AE \cdot BE = FE \cdot ED \quad (\dots \text{על פי תורת הממונות})$$

$$\frac{3a^2}{4} = \frac{\sqrt{7}}{2}a \cdot ED \rightarrow ED = \frac{\frac{3a^2}{4}}{\frac{\sqrt{7}}{2}a} = \frac{3\sqrt{7}a}{14}$$

$$\frac{EF}{DE} = \frac{\frac{\sqrt{7}}{2}a}{\frac{3\sqrt{7}a}{14}} = \frac{7}{3}$$