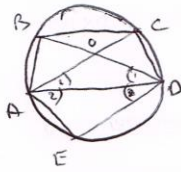


2.74  
6



(שאלה פשוטה) עיר פשוטה ?

$$\angle A_1 = \angle D_1$$

$$\angle C_1 D_1 = \angle A_1 + \angle D_1 = 60$$

$$\angle A_1 = 60$$

75° |> פשוטה פשוטה 216° פשוטה פשוטה <=>

$$\angle E = 105, \angle D_2 = 30, \angle A_2 = 45$$

$$\textcircled{1} S_{AD_1E} = 1 + \sqrt{3} = 2R^2 \sin \angle A_2 \sin \angle D_2 \sin \angle E = 2R^2 \sin 30 \sin 45 \sin 105$$

$$1 + \sqrt{3} = 2R^2 \sin 30 \sin 45 \sin 75 = 2R^2 \cdot \frac{1}{2} \cdot \frac{\sqrt{2}}{2} \cdot \frac{\sqrt{6}}{4} (1 + \sqrt{3})$$

$$\boxed{R=2}$$

2

$$1 + \sqrt{3} = \frac{AD^2 \sin 30 \sin 45}{2}$$

$$\Rightarrow \frac{AD^2 \cdot \frac{1}{2} \cdot \frac{\sqrt{2}}{2}}{2}$$

$$\rightarrow AD = \sqrt{\frac{2(1+\sqrt{3})}{\sqrt{2}}}$$