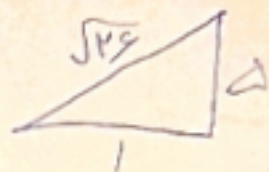


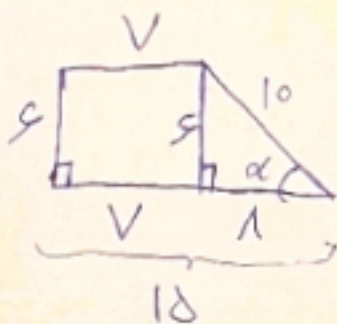
$$\tan \theta = \frac{\text{مقابل}}{\text{مجاور}} = \frac{5}{1}$$



$$r = \sqrt{5^2 + 1^2} = \sqrt{26}$$

$$\sin \theta = \frac{5}{\sqrt{26}} \quad \cos \theta = \frac{1}{\sqrt{26}}$$

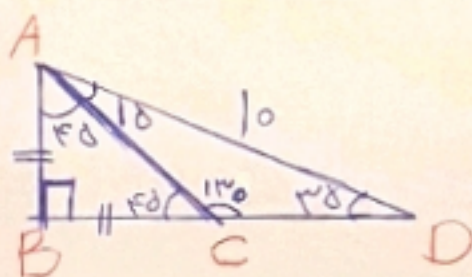
$$\frac{3\left(\frac{5}{\sqrt{26}}\right) - \frac{1}{\sqrt{26}}}{\frac{5}{\sqrt{26}} - 2\left(\frac{1}{\sqrt{26}}\right)} = \frac{\frac{14}{\sqrt{26}}}{\frac{1}{\sqrt{26}}} = 14$$



$$\sin \alpha = \frac{6}{10}$$

$$10^2 - 6^2 = 1^2$$

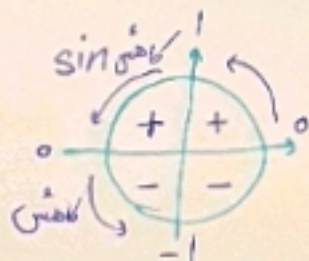
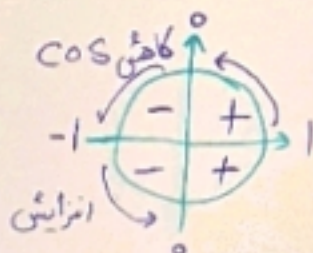
$$\underline{\text{مساحت}} = V + 6 + 10 + 10 = 31$$



$$DC = ?$$

$$110 - (90 + 55) = 35$$

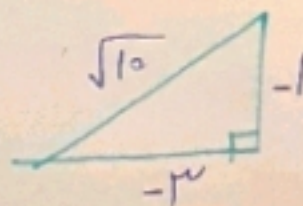
$$\frac{\frac{10}{\sin 135^\circ}}{\sin 135^\circ} = \frac{DC}{\sin 35^\circ} \Rightarrow DC \approx 13.4$$



الف) ناحیه سوم

ب) ناحیه دوم

$$\sin \theta = \frac{-1}{\sqrt{10}}$$



$$\tan \theta = \frac{1}{3}$$

$$\sqrt{1^2 + 3^2} = \sqrt{10}$$

$$\theta = \text{در ناحیه دوم}$$

$$\sin \theta = -$$

$$\cos \theta = -$$