



Question  
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a)

$$\theta = \frac{\pi}{5}$$

$$= \frac{180}{5} = 36^\circ$$

$$\therefore \angle ACD = 36^\circ$$

$$\angle BAC = \frac{3\pi}{5} = \frac{3 \times 180}{5} = 108^\circ$$

$$2\theta = 72$$

$$2 \times 36^\circ = 72^\circ$$

$$\angle ADB = 180^\circ - 72$$

$$= 108$$

$$180^\circ - 108^\circ + 36^\circ =$$

$$= 36^\circ$$

$$\therefore \angle DAB = 36^\circ$$

$$\therefore \angle DAC = 72^\circ - 36^\circ$$

$$= 36^\circ$$

$$\therefore 72 + 72 + 36$$

$$= 180$$



$$ii) \cos \frac{\pi}{5} =$$