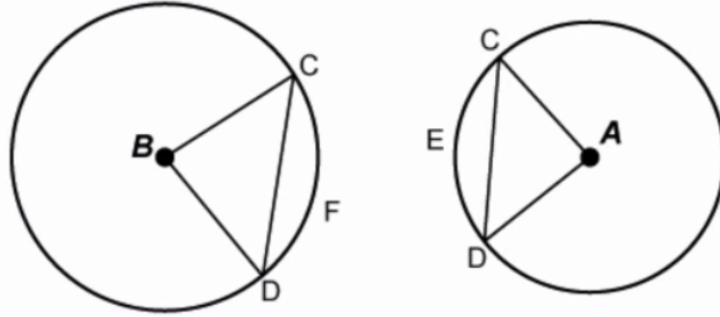


Question 38

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Of segments CFD and CED, which of the segments has a greater area based on the given information? Justify with your work. Circle A
Information:

$$r = 10m, m\angle CAD = 90^\circ$$

Circle B Information:

$$r = 12m, m\angle CBD = 60^\circ$$

The first step is to find the area of ∇CD for both $\circ B$ and $\circ A$.

$$A_{\circ B} = \pi(12)^2 = 144\pi \quad (1)$$

$$A_{\nabla CD_{\circ B}} = \frac{60}{360} A_{\circ B} = \frac{1}{6} 144\pi \quad (2)$$

$$A_{\circ A} = \pi(10)^2 = 100\pi \quad (3)$$

$$A_{\nabla CD_{\circ A}} = \frac{90}{360} A_{\circ A} = \frac{1}{4} 100\pi \quad (4)$$

The next step would be to find the area of ∇CBD and ∇CAD .