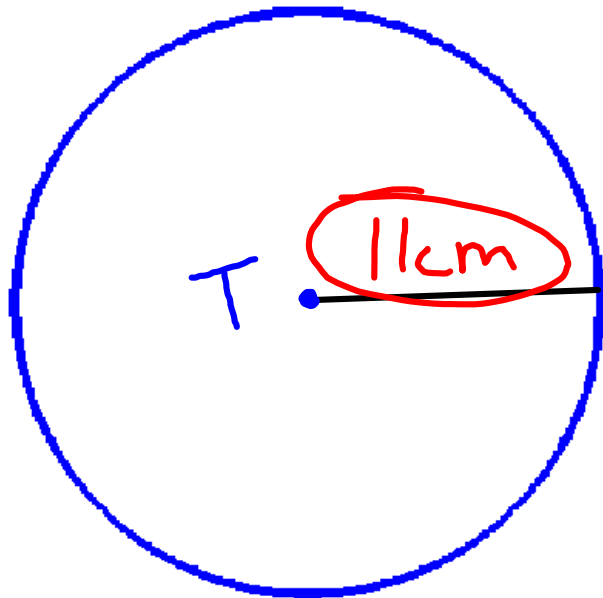


Area of Shaded Regions w/ Circles

May 10, 2007



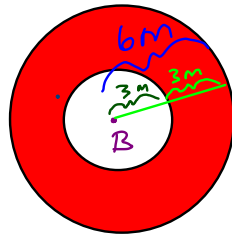
$$A_{\odot T} = \pi r^2$$

$$= \pi (11\text{cm})^2$$
$$= \underline{121\pi\text{cm}^2}$$

↑ exact

$$\approx \underline{121(3.14)\text{cm}^2}$$
$$\approx \underline{379.94\text{cm}^2}$$

↑ approx



These Two Circles have the Same Center B

find the area of the Shaded (Red) Region

\odot_{BR} \rightarrow Big Red Circle

\odot_{BW} \rightarrow Small White Circle

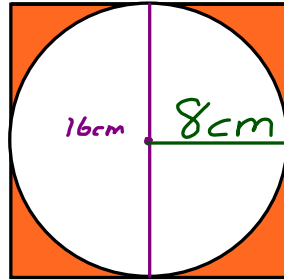
$$A_{SR} = A_{\odot_{BR}} - A_{\odot_{BW}}$$

$$\begin{aligned} A_{\odot_{BR}} &= \pi r^2 \\ &= \pi (6m)^2 \\ &= \underline{\underline{36\pi m^2}} \end{aligned}$$

$$\begin{aligned} A_{\odot_{BW}} &= \pi r^2 \\ &= \pi (3m)^2 \\ &= \underline{\underline{9\pi m^2}} \end{aligned}$$

$$\begin{aligned} A_{SR} &= A_{\odot_{BR}} - A_{\odot_{BW}} \\ &= 36\pi m^2 - 9\pi m^2 \\ &= \underline{\underline{27\pi m^2}} \rightarrow \text{exact ans.} \\ &\approx 27(3.14) m^2 \\ &= \underline{\underline{84.78 m^2}} \rightarrow \text{approx.} \end{aligned}$$

Circle in a Square

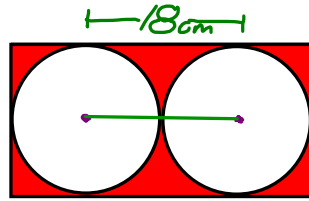


$$A_{SR} = A_{sq} - A_{\odot}$$

$$\begin{aligned} A_{sq} &= s \cdot s \\ &= (16\text{cm})(16\text{cm}) \\ &= \underline{256\text{cm}^2} \end{aligned}$$

$$\begin{aligned} A_{\odot} &= \pi r^2 \\ &= \pi (8\text{cm})^2 \\ &= \underline{64\pi\text{cm}^2} \approx 64(3.14)\text{cm}^2 \approx 200.96\text{cm}^2 \end{aligned}$$

$$\begin{aligned} A_{SR} &= A_{sq} - A_{\odot} \\ &= \underline{256\text{cm}^2} - \underline{200.96\text{cm}^2} \\ &= \underline{\underline{55.04\text{cm}^2}} \end{aligned}$$



2 congruent
Circles in
a Rectangle

O.T.L.

① Finish & Due the last S.R. Problem.

① pg 263: Challenge:
5-8 (all)

② If you have not already, I must have a $8\frac{1}{2} \times 11$ Sketch of your poster design!