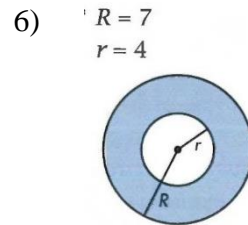
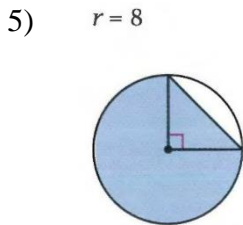
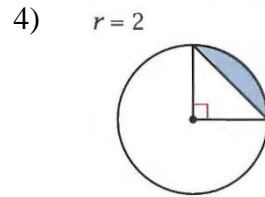
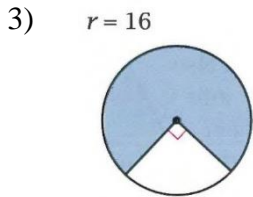
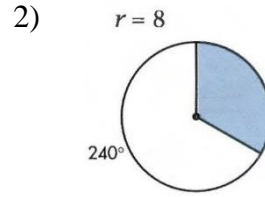
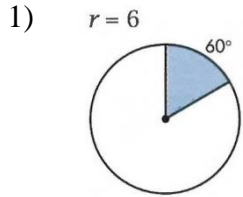
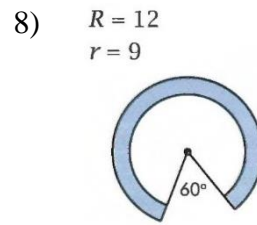
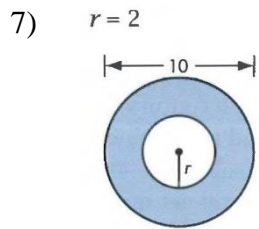


12.65 - Areas of Parts of a Circle

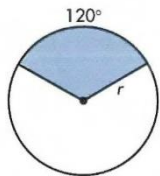
Find the shaded area. The radius of each circle is r . If two circles are shown, r is the radius of the smaller circle and R is the radius of the larger one. All given measurements are in centimeters.



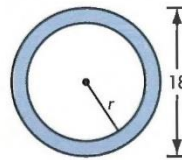


For the following, find the measurement of the radius.

- 9) The shaded area is $12\pi \text{ cm}^2$.



- 10) The area of the annulus is $32\pi \text{ cm}^2$.



Find the $m\angle ABC$.

- 11) The shaded area is $120\pi \text{ cm}^2$.
 $r = 24 \text{ cm}$

