In Exercises 1-8, find the area of the

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shaded region. 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 circle. 1) r = 6 cm60° 2) r = 8 cm240° 3) r = 16 cm4) r = 2 cm



9) The shaded area is 12π cm². Find *r*.



10) The shaded area is 32π cm². Find *r*.



11) The shaded area is 120π cm², and the radius is 24 cm. Find *x*.



12) The shaded area is 10π cm². The radius of the large circle is 10 cm, and the radius of the small circle is 8 cm. Find *x*.



13) What is the area of the shaded region?



14) What is the area of the shaded region?



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