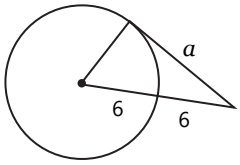
# LESSON 134 Review: 3rd Quarter

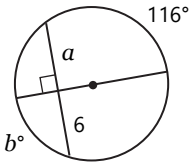
Let's review. Be sure to check the corresponding lesson(s) if you get any problem(s) wrong.

(Lessons 91 ~ 99) Find the values of the variables.

**1.**




**2.**

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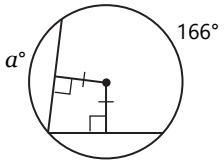


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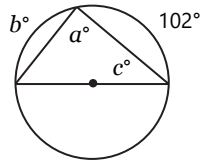
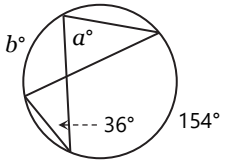



**5.**

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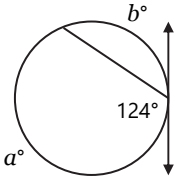
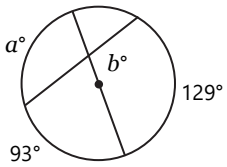
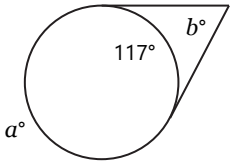


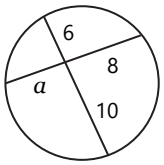

**7.**



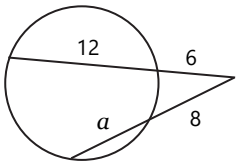

**8.**




**9.**



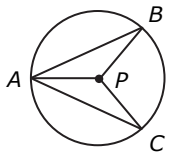

**10.**




(Lesson 101) Complete the proof.

**11.** Given: $\widehat{AB} \cong \widehat{AC}$

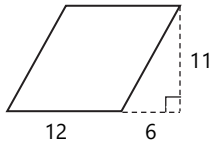
Prove: $\triangle PAB \cong \triangle PAC$



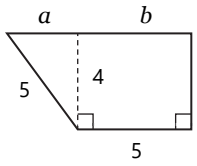

| STATEMENTS | REASONS |
|---|---|
| 1. $\widehat{AB} \cong \widehat{AC}$ | 1. Given |
| 2. $\overline{AB} \cong \overline{AC}$ | 2. Congruent arcs have congruent chords. |
| 3. $\overline{PB} \cong \overline{PC}$ | 3. |
| 4. $\overline{PA} \cong \overline{PA}$ | 4. |
| 5. $\triangle PAB \cong \triangle PAC$ | 5. |

(Lessons 103 & 104) Find the area of each polygon in simplest radical form.

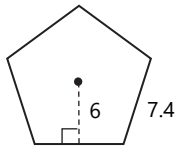
**12.** parallelogram



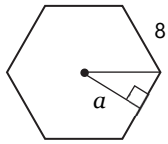

**13.** trapezoid




**14.** regular pentagon




**15.** regular hexagon




(Lesson 105) Use similar polygons to solve.

**16.** Two similar kites have perimeters in the ratio 2:5. What is the ratio of their areas?

**17.** A right triangle has area 54 in$^2$ and hypotenuses 15 in. A similar right triangle has area 6 in$^2$. What is the length of the hypotenuse of the similar triangle?

(Lessons 106 ~ 108) Solve. Leave $\pi$ as $\pi$.

**18.** What is the circumference of a circle with radius 5 inches?

**19.** What is the length of an arc with radius 9 cm and central angle 80°?

**20.** What is the central angle, in degrees, of an arc with radius 18 cm and arc length $14\pi$ cm?

**21.** What is the area of a circle with diameter 20 inches?

**22.** What is the area of a sector with radius 6 cm and central angle 110°?

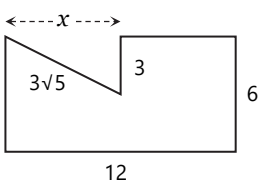
**23.** What is the radius of a sector with central angle 240° and area $150\pi$ m$^2$?

**24.** Write a proportion to convert 120° to radians. Then solve the proportion.

**25.** Write a proportion to convert $\pi/6$ radians to degrees. Then solve the proportion.

(Lesson 109) Find the area of each figure. Leave $\pi$ as $\pi$.

**26.**




**27.**