

LESSON 4.7 Practice A
For use with pages 264–270

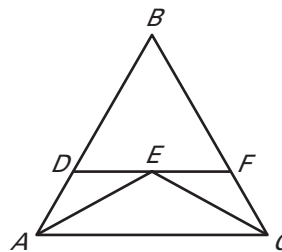
If you turn this in on time: do the odds.
If you turn this in late or
you are doing it over: do the evens.

Student score:
How well do you feel you understand this learning target:

Teacher Score:

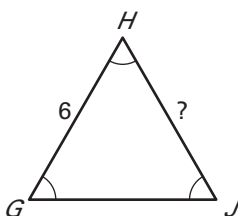
In Exercises 1–4, use the diagram. Copy and complete the statement. Tell what theorem or corollary you used.

- If $\overline{AE} \cong \overline{CE}$, then $\angle \underline{\quad} \cong \angle \underline{\quad}$.
- If $\angle DAE \cong \angle DEA$, then $\underline{\quad} \cong \underline{\quad}$.
- If $\angle BDF \cong \angle DBF \cong \angle BFD$, then $\underline{\quad} \cong \underline{\quad} \cong \underline{\quad}$.
- If $\overline{AB} \cong \overline{BC} \cong \overline{AC}$, then $\angle \underline{\quad} \cong \angle \underline{\quad} \cong \angle \underline{\quad}$.

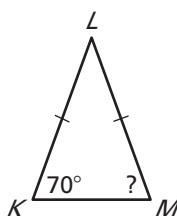


Find the unknown measure.

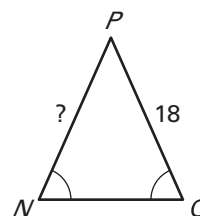
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6.

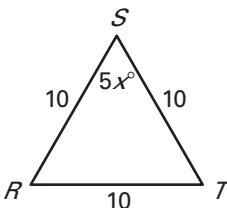


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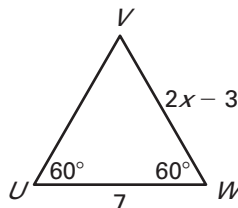


Find the value of x.

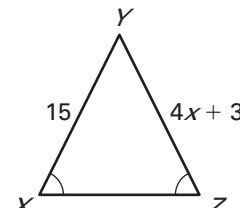
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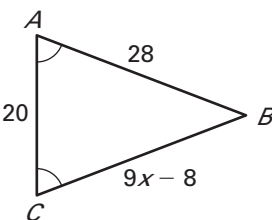
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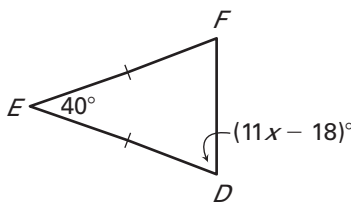
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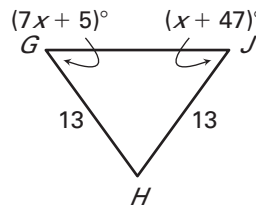
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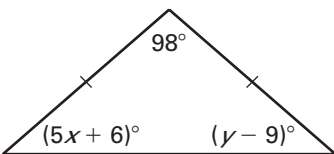


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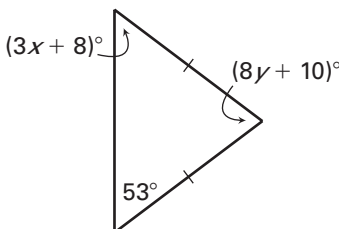


Find the values of x and y.

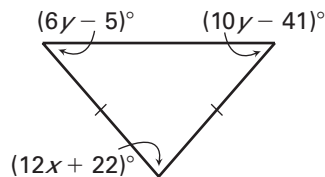
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15.

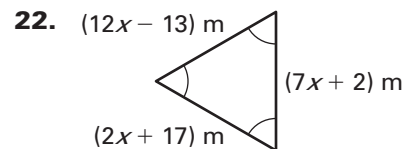
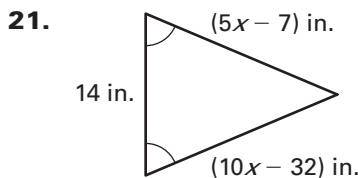
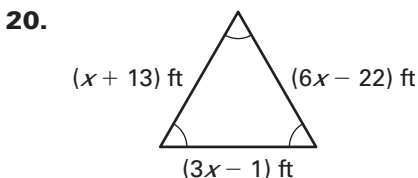
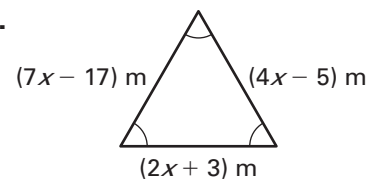
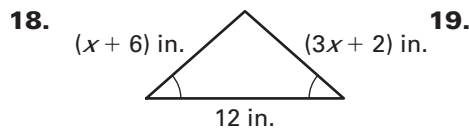
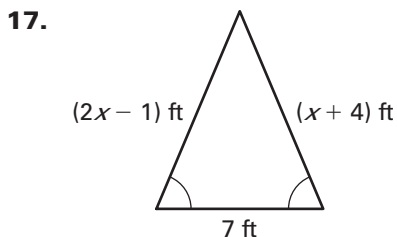


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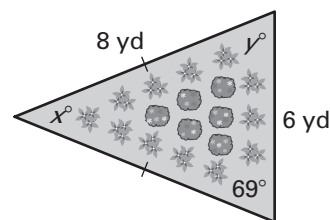


LESSON 4.7 Practice A *continued*
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Find the perimeter of the triangle.



23. Garden You plant a garden in the shape of a triangle as shown in the figure. What is the perimeter of the garden? Find the values of x and y .



Complete the proof.

24. GIVEN: \overline{BD} bisects $\angle ADC$.
 $\overline{DB} \perp \overline{AC}$

PROVE: $\triangle ADC$ is isosceles.

Statements	Reasons
1. \overline{BD} bisects $\angle ADC$.	1. ?
2. ?	2. Definition of Angle Bisector
3. ?	3. Given
4. $\angle 3 \cong \angle 4$	4. ?
5. $\overline{DB} \cong \overline{DB}$	5. ?
6. ?	6. ASA Congruence Postulate
7. ?	7. Corresponding parts of \cong triangles are \cong .
8. $\triangle ADC$ is isosceles.	8. ?

