Name _____ Date _____

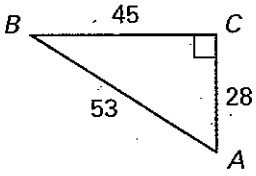
LESSON 7.5

Practice B

For use with pages 466–472

Find tan *A* and tan *B*. Write each answer as a decimal rounded to four decimal places.

1.



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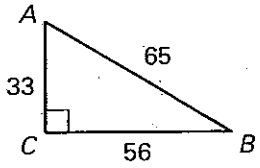
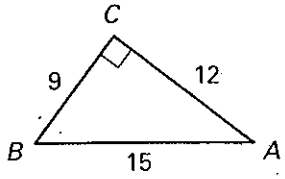
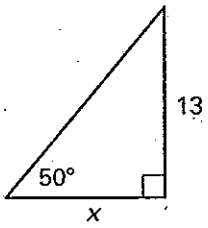


3.

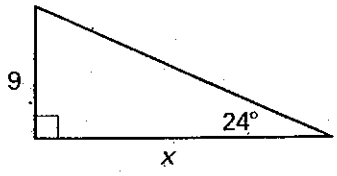


Find the value of *x* to the nearest tenth.

4.



5.



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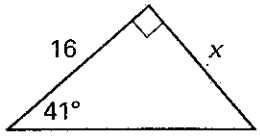

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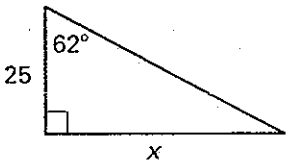
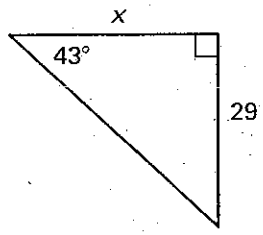


8.



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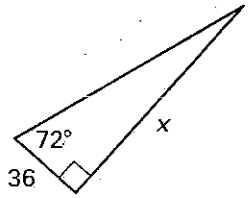
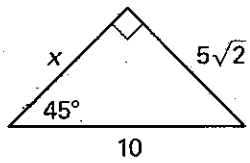


Find the value of *x* using the definition of tangent. Then find the value of *x* using the 45°-45°-90° Triangle Theorem or the 30°-60°-90° Triangle Theorem. *Compare* the results.

10.



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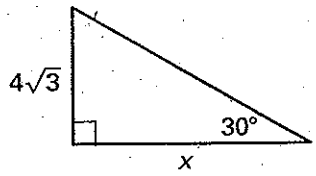

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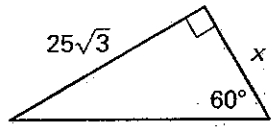


For acute $\angle A$ of a right triangle, find tan *A* by using the 45°-45°-90° Triangle Theorem or the 30°-60°-90° Triangle Theorem.

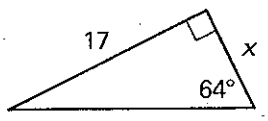
13. $m\angle A = 30°$

14. $m\angle A = 45°$

15. $m\angle A = 60°$

Use a tangent ratio to find the value of *x*. Round to the nearest tenth.

16.



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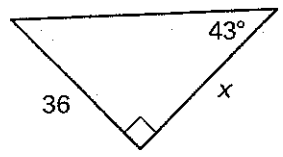
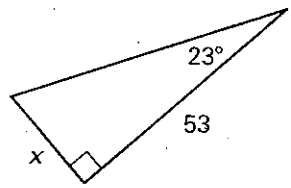


18.



LESSON 7.6

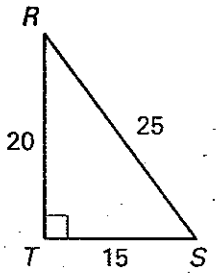
Practice B ★

For use with pages 473–480

Find the Area of triangles in #13-15
Find the Perimeter of triangles in #16-18

Find sin *R* and sin *S*. Write each answer as a fraction and as a decimal. Round to four decimal places, if necessary.

1.



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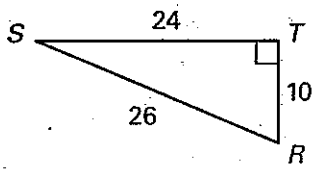

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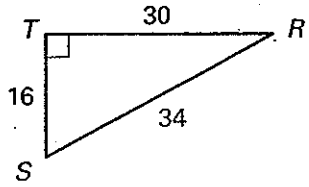

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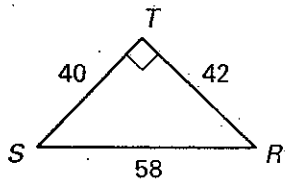

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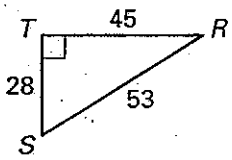
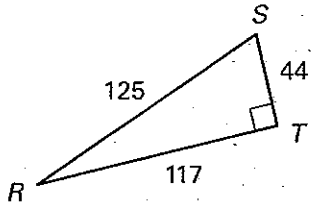
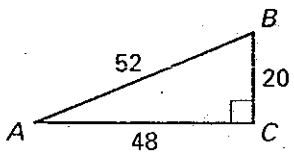


6.

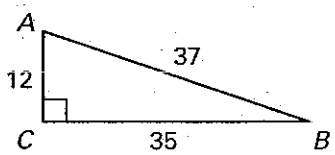


Find cos *A* and cos *B*. Write each answer as a fraction and as a decimal. Round to four decimal places, if necessary.

7.



8.



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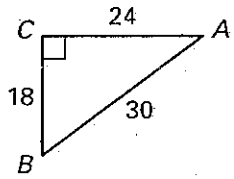

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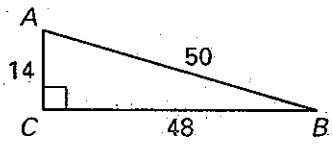

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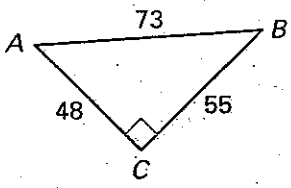
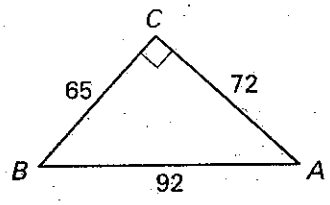
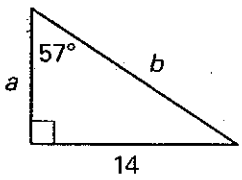


12.



Use a cosine or sine ratio to find the value of each variable. Round decimals to the nearest tenth.

13.



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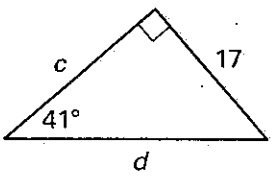
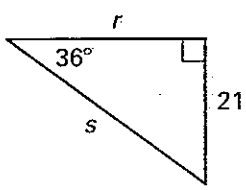
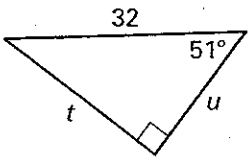


15.



16.



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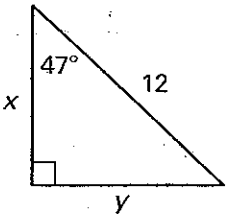

18.