

Name _____

Date _____

LESSON 7.7

Practice B

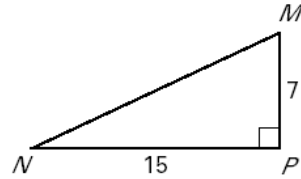
For use with pages 483–489

Use the diagram to find the indicated measurement. Round your answer to the nearest tenth.

1. MN

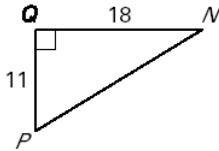
2. $m\angle M$

3. $m\angle N$

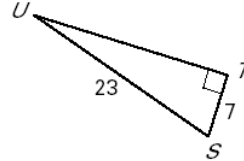


Solve the right triangle. Round decimal answers to the nearest tenth.

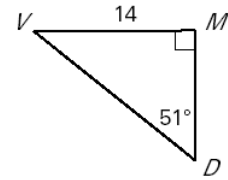
4.



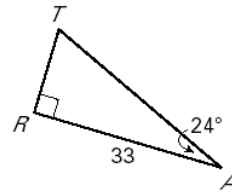
5.



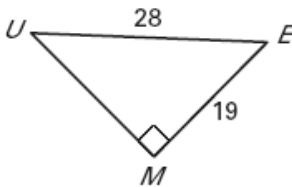
6.



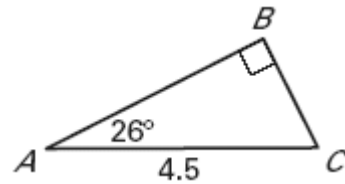
7.



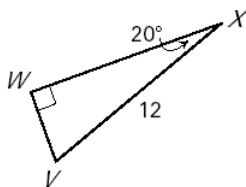
8.



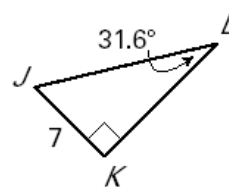
9.



10.



11.



Let $\angle A$ be an acute angle in a right triangle. Approximate the measure of $\angle A$ to the nearest tenth of a degree.

12. $\sin A = 0.27$

13. $\cos A = 0.35$

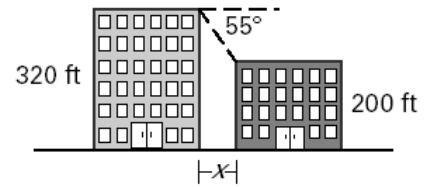
14. $\tan A = 0.42$

15. $\cos A = 0.11$

16. $\sin A = 0.94$

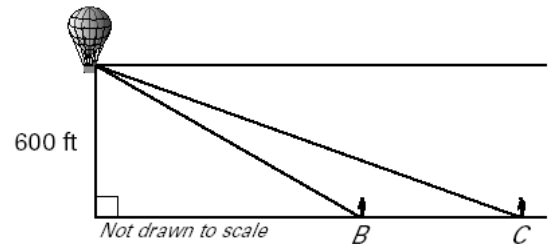
17. $\cos A = 0.77$

18. **Office Buildings** The angle of depression from the top of a 320 foot office building to the top of a 200 foot office building is 55° . How far apart are the buildings?



In Exercises 25–27, use the following information.

Hot Air Balloon You are in a hot air balloon that is 600 feet above the ground where you can see two people.



19. If the angle of depression from your line of sight to the person at B is 30° , how far is the person from the point on the ground below the hot air balloon?

20. If the angle of depression from your line of sight to the person at C is 20° , how far is the person from the point on the ground below the hot air balloon?

21. How far apart are the two people?