Practice 11-6

Sine, Cosine, and Tangent Ratios

Find each value. Round to four decimal places.
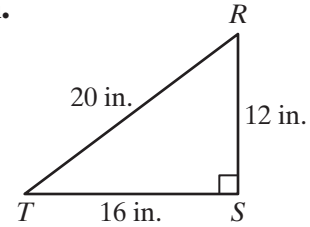
1. cos 20° _____

2. tan 64° _____

3. sin 41° _____

4. tan 8° _____

5. sin 88° _____

6. cos 53° _____

Use △MNP for Exercises 7 to 12. Find each ratio.
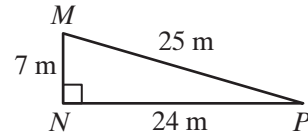
7. sine of ∠P _____

8. cosine of ∠P _____

9. tangent of ∠P _____

10. sine of ∠M _____

11. cosine of ∠M _____

12. tangent of ∠M _____

Use △RST for Exercises 13 to 18. Find each ratio in simplest form.

13. sine of ∠T _____

14. cosine of ∠T _____

15. tangent of ∠T _____

16. sine of ∠R _____

17. cosine of ∠R _____

18. tangent of ∠R _____

Write each ratio using square root signs. Use your knowledge of 45°-45°-90° and 30°-60°-90° right triangles.

19. tan 30° _____

20. cos 45° _____

21. sin 60° _____

22. cos 60° _____

23. tan 45° _____

24. sin 30° _____

25. A surveyor standing 2,277 ft from the base of a building measured a 31° angle to the topmost point. To the nearest ft, how tall is the building?

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