

Section 8

8.2 Trigonometric Identities

Use the figure for Exercises 1–6. Write each trigonometric ratio as a simplified fraction and as a decimal (rounded to the nearest hundredth).



1. $\sin \theta$ _____

2. $\cos \theta$ _____

3. $\tan \theta$ _____

4. $\csc \theta$ _____

5. $\sec \theta$ _____

6. $\cot \theta$ _____

Use special right triangles or known trigonometric ratios as a simplified fraction.

7. $\sin 30^\circ$ _____

8. $\cos 30^\circ$ _____

9. $\tan 30^\circ$ _____

10. $\csc 30^\circ$ _____

11. $\sec 30^\circ$ _____

12. $\cot 30^\circ$ _____

Use a calculator to find each trigonometric ratio. Round to the nearest hundredth.

13. $\sin 40^\circ$ _____

14. $\cos 40^\circ$ _____

15. $\tan 40^\circ$ _____

Find each length. Round to the nearest hundredth.



17. _____



19. _____



21. _____



23. _____



25. _____



27. _____

Practice A Trigonometric Ratios Key Lesson 8 2

Michael Rajnik



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