

8.1 Puzzle Time

What Is A Chrysler's Favorite Game?

Write the letter of each answer in the box containing the exercise number.

Let θ be an acute angle of a right triangle. Evaluate $\csc \theta$.

1. $\sin \theta = \frac{2}{3}$

2. $\cos \theta = \frac{4}{7}$

3. $\tan \theta = \frac{10}{3}$

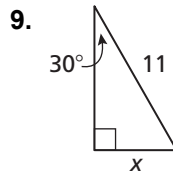
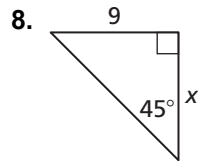
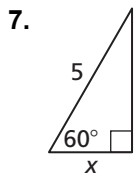
Let θ be an acute angle of a right triangle. Evaluate $\sin \theta$.

4. $\sec \theta = \frac{5}{2}$

5. $\cot \theta = \frac{2}{9}$

6. $\csc \theta = \frac{6}{5}$

Find the value of x for the right triangle.



Answers

A. $\frac{5}{2}$

O. $\frac{7\sqrt{33}}{33}$

L. $\frac{11}{2}$

D. $\frac{\sqrt{109}}{10}$

D. $\frac{3}{2}$

E. $\frac{9\sqrt{85}}{85}$

B. $\frac{5}{6}$

G. $\frac{\sqrt{21}}{5}$

L. 9

1	2	3	4	5	6	7	8	9
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Puzzle Time

Why Did The Kangaroo Lose The Basketball Game?

Write the letter of each answer in the box containing the exercise number.

Find one positive angle and one negative angle that are coterminal with the given angle.

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|---------------------|----------------------|
| 1. 80° | 2. -124° |
| 3. 112° | 4. -31° |
| 5. $\frac{3\pi}{2}$ | 6. $-\frac{5\pi}{3}$ |
| 7. $-\frac{\pi}{4}$ | 8. $\frac{12\pi}{7}$ |

Convert the degree measure to radians or the radian measure to degrees.

- | | |
|-----------------|-----------------------|
| 9. -425° | 10. $\frac{7\pi}{2}$ |
| 11. 135° | 12. $\frac{34\pi}{5}$ |
| 13. 74° | 14. $-\frac{\pi}{4}$ |
| 15. -18° | 16. $-\frac{2\pi}{3}$ |

Answers

- | | |
|--------------------------------------|---------------------------------------|
| E. $236^\circ; -484^\circ$ | A. $329^\circ; -391^\circ$ |
| H. $440^\circ; -280^\circ$ | F. 630° |
| O. 1224° | O. $\frac{\pi}{3}; -\frac{11\pi}{3}$ |
| R. $472^\circ; -248^\circ$ | D. $-\frac{\pi}{10}$ |
| U. $\frac{7\pi}{4}; -\frac{9\pi}{4}$ | T. $\frac{26\pi}{7}; -\frac{2\pi}{7}$ |
| O. $-\frac{85\pi}{36}$ | S. -120° |
| B. $\frac{3\pi}{4}$ | U. $\frac{37\pi}{90}$ |
| N. $\frac{7\pi}{2}; -\frac{\pi}{2}$ | N. -45° |

1	2		3	4	5		6	7	8		9	10		11	12	13	14	15	16
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