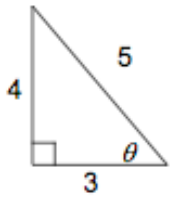
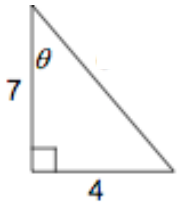
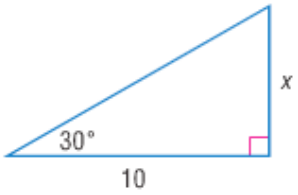
Algebra 2CP
Chapter 13 YOU CAN...

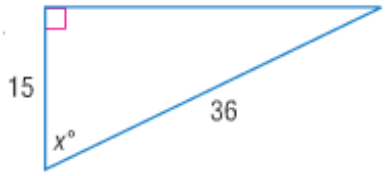
✤ Find the trig. ratio value for sin θ, cos θ, and tan θ based on a given right triangle

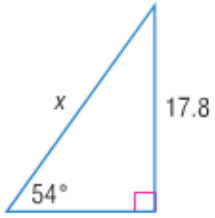
1. 

2. 

✤ Find missing sides and angles of a right triangle using right triangle trigonometry

3. 

4. 

5. 

✤ Rewrite each degree measure in radians and each radian measure in degrees

7. 90^o 8. $5\pi/4$ 9. 5

✤ Draw angles in standard position

9. 65^o 10. $2\pi/3$ 11. 145^o 12. $10\pi/3$ 13. 310^o

✤ Write a given angle measure with both a positive and negative coterminal angle

14. 65^o 15. $2\pi/3$ 16. 145^o 17. $10\pi/3$ 18. 310^o

✤ Find reference angles

19. 230^o 20. $-7\pi/9$ 21. 640^o

✤ Find exact values of trig. functions without using a calculator

22. cos 225^o 23. sin $(-5\pi/3)$ 24. tan $(7\pi/6)$ 25. tan (-300^o) 26. cos $7\pi/4$

✤ Find exact values of of the remaining trig. functions

27. csc θ = -5/2; QIV 28. cos θ = -1/3; QIII 29. cot θ = -2; QII

✤ Use right triangle trig. to solve word problems

30. A surveyor stands 100 feet from a building and sights the top of the building at a 55^o angle of elevation. Find the height of the building.

31. Simon stands 140 meters away from the base of a building of height 50.96 meters. Find the angle of depression from the top of the building to Simon.

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✤ Fill in the correct angles (in degrees and radians) and coordinates on the unit circle