● **Lesson 13-2** **Sketch each angle in standard position.**

4. 15°
5. −230°
6. 400°
7. −145°
8. 280°
[redacted]

● **Lesson 13-3** **Write each measure in radians. Express the answer in terms of π and as a decimal rounded to the nearest hundredth.**

10. 100°
11. 270°
12. −45°
13. −550°
14. 425°
15. 10°

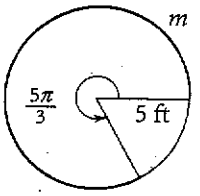
● **Lesson 13-3** **Write each measure in degrees. When necessary, round your answer to the nearest degree.**

[redacted]
[redacted]
18. $\frac{5\pi}{6}$ radians
19. -3π radians
20. $-\frac{13\pi}{10}$ radians
[redacted]

The measure θ of an angle in standard position is given.
a. Write each degree measure in radians and each radian measure in degrees rounded to the nearest degree.
b. Find the exact values of $\cos\theta$ and $\sin\theta$ for each angle measure.

12. 60°
13. −45°
14. 180°
[redacted]
16. $\frac{5\pi}{6}$ radians
17. $-\frac{3\pi}{4}$ radians

18. Use the circle to find the length of the indicated arc. Round your answer to the nearest tenth.



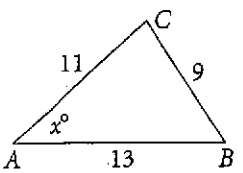
Find the measure of an angle between 0° and 360° coterminal with the given angle.

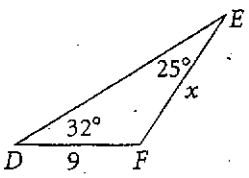
3. −32°
4. −229°
5. 375°

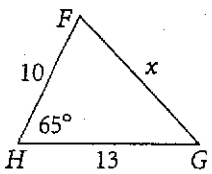
● **Lesson 14-3** **In $\triangle ABC$, $\angle C$ is a right angle. Find the remaining sides and angles. Round your answer to the nearest tenth.**

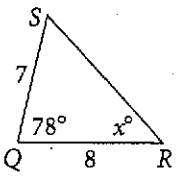
18. $m\angle A = 29°, b = 8$
19. $a = 7, c = 9$
20. $m\angle B = 52°, b = 10$
21. $a = 2, b = 4$
22. $m\angle A = 37°, c = 12$
23. $b = 5, c = 8$

● **Lessons 14-4 and 14-5** **Use the Law of Sines or the Law of Cosines. Find the measure x to the nearest tenth.**

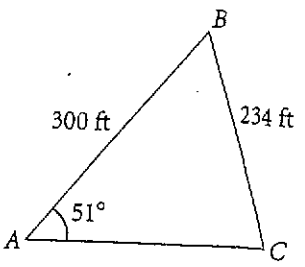
28.


29.


30.


31.


54. A landscaping company received a rough sketch of a triangular property from the property owner. The sketch, shown at the right, is not to scale. The owner is asking for a price quote to sod the land. Sod costs $2 per square foot. Can the landscaper estimate the cost of the job using the information provided? If so, find the estimate. If not, explain what information is missing.



51. Two buildings on level ground are 200 feet apart. From the top edge of the shorter building, the angle of elevation to the top of the taller building is 24°, and the angle of depression to the bottom of the taller building is 35°. How tall is each building? Round to the nearest foot.