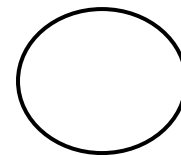
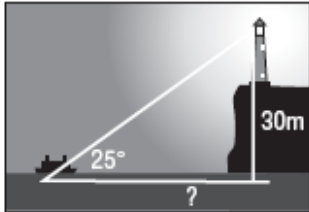


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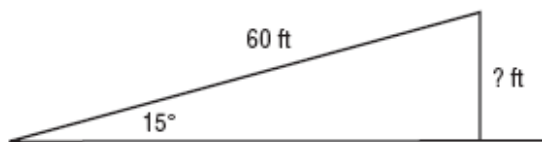


Trigonometry
Week of _____ Openers
SHOW ALL WORK FOR FULL CREDIT

Date	Opener	Answers
	<p>Find the angle of elevation to the top of a tree if the tree is 40 feet tall and the snail is standing 18 feet away?</p>	
	<p>1. LIGHTHOUSES Sailors on a ship at sea spot the light from a lighthouse. The angle of elevation to the light is 25°.</p>  <p>The light of the lighthouse is 30 meters above sea level. How far from the shore is the ship? Round your answer to the nearest meter.</p>	

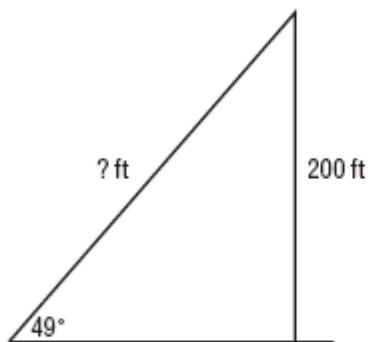
3. **TRIGONOMETRY** Melinda and Walter were both solving the same trigonometry problem. However, after they finished their computations, Melinda said the answer was $52 \sin 27^\circ$ and Walter said the answer was $52 \cos 63^\circ$. Could they both be correct? Explain.

2. **RAMPS** A 60-foot ramp rises from the first floor to the second floor of a parking garage. The ramp makes a 15° angle with the ground.



How high above the first floor is the second floor? Express your answer as a trigonometric function.

1. **RADIO TOWERS** Kay is standing near a 200-foot-high radio tower.



Use the information in the figure to determine how far Kay is from the top of the tower. Express your answer as a trigonometric function.