CCSS Geometry	Name:	
G4: Applying Sine, Cosine, and Tangent		Per:
<u>Draw a diagram</u> and solve the problems. Round your answers to	two decimal places, as	s needed.
 A ladder leans against a brick wall. The foot of the ladder is 42° angle with the ground. How long is the ladder? 	s 6 feet from the wall. T	The ladder is making a
Mary is flying a kite a 50-meter string. The string is making above the ground is the kite?	a 50° angle with the gr	ound. How high
 At a certain time of day, the angle of elevation of the sun i 	is 44°. Find the length o	of a shadow cast hy a
building 30 meters high.		a strauger vast by a

4.	From the top of a lighthouse 210 feet high the angle of depression of a boat is 27°find the distance from the boat to the foot of the lighthouse. The lighthouse was built at sea level.		
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5.	Richard is flying a kite. The kite string makes an angle of elevation of 57° with the ground. If Richard is standing 100 feet from the point on the ground directly below the kite find the length of the kite string.		
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6.	At a point on the ground 50 feet from the foot of a tree the angle of elevation to the top of the tree is 53°. Find the height of the tree.		