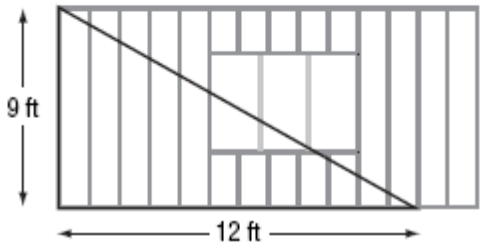
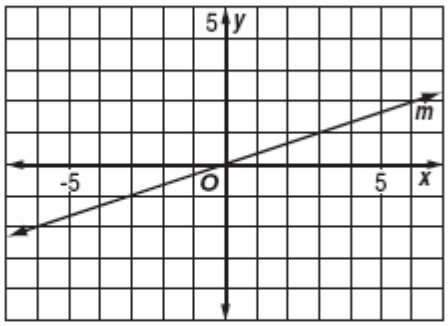
Name: _____ Per: _____

Trigonometry
Week of _____ Openers
SHOW ALL WORK FOR FULL CREDIT

Date	Opener	Answers
	2. CONSTRUCTION Madeleine is helping to build a house with Habitat for Humanity. After an exterior wall is erected, she measures it to see if it is square. The height of the wall is 9 feet. She measures 12 feet along the floor from the corner and makes a mark. What should be the length of the diagonal from the top of the wall to her mark if the wall is square? 	
	1. HIKING Freddy is on a nature hike. He hikes west 4 miles, and then he turns due north and hikes for 2 miles. It is getting dark and Freddy wants to take the shortest route back to where he started. What is the direct distance back to his starting point?	

Date	Opener	Answers
	4. **LINES** Jasmine draws line m on a coordinate plane.  What angle does m make with the x-axis? Round your answer to the nearest degree.	
	3. **FURNITURE** A corner table has a top in the shape of an isosceles right triangle. If the hypotenuse is 14 inches long, what is the length of each side?	
	You are standing 40 feet away from a flag pole that is 63 feet tall. What is the angle of elevation from the pole to the top of the flag pole.	