Worksheet 8.4 Trig Word Problems Geometry Regular		Mods
Draw diagrams for each word problem an the problem.	d show the trig fur	nction used to solve
1. A monument stands on level ground. The a monument taken at a point 405 feet away is	•	•
2. A boy flying a kite lets out 150 feet of s the ground. If the string forms a straight l ground?		•
3. A person in a balloon which is 2,000 feed of depression to a ship out at sea is 21°. Fit balloon and the ship. (or the distance from	nd the horizontal dis	stance between the

4. An airplane climbs at an angle of  $11^\circ$  with the ground. Find the distance it has traveled when it has attained an altitude of 400 feet.

5. Find the angle of elevation of the sun when a 24 foot tree casts a shadow of 36 feet.
6. A 40 foot ladder is leaning against a building. The foot of the ladders is 32 feet from the building. Find the angle that the ladder makes with the building.
7. A television tower is 150 feet high and an observer is 120 feet from the base of the tower. Find the angle of elevation to the top of the tower from the place where the observer is standing.
8. A 40 foot ladder which is leaning against a wall reaches the wall at a point 36 feet from the ground. Find the angle that the ladder makes with the ground.