Word Problem	Picture	Solve!
1. A man flies a kite with a 100 foot string. The angle of elevation of the string is 52°. What is the height of the kite in the sky?	x // 52°	
2. An airplane takes off 200 yards in front of a 180 yard building. Find the <u>angle of elevation</u> for the plane so it does not hit the building.	200 Yd 180 yd	
3. A person stands on a <u>building that is 12.6</u> <u>tall</u> . A phone is on the ground 58.5 meters away from the building. Find the <u>angle of depression</u> from your eyes to the object.	X° X° 58.5	
4. The pilot of a helicopter sees a fire at an angle of depression of 11°. The helicopter's altitude (or height) is 1700 feet. What is the horizontal distance from the helicopter to the fire?	110	

5. Smokey the bear is in a 140 foot observation tower and sees a fire! The angle of depression to the fire is 3°. Find the horizontal distance from the tower to the fire.	3°	
6. Ada is snorkeling and sees a turtle on the ocean floor at an angle of depression of 38°. She is 14 feet above the ocean floor. How far from the turtle is she?	x	
7. Alex is standing 12 feet from a rock-climbing wall. When he looks up to see his friend, the angle of elevation is 56°. How high up the wall is his friend?	56° 12 ft	
8. An observer in a hot-air balloon sees a building that is 50m away. The balloon has a height of 165m. What is the angle of depression from the balloon to the building?	165 m	