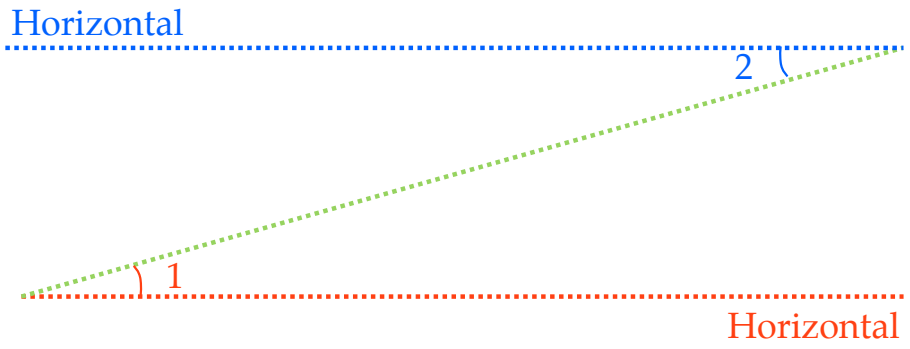
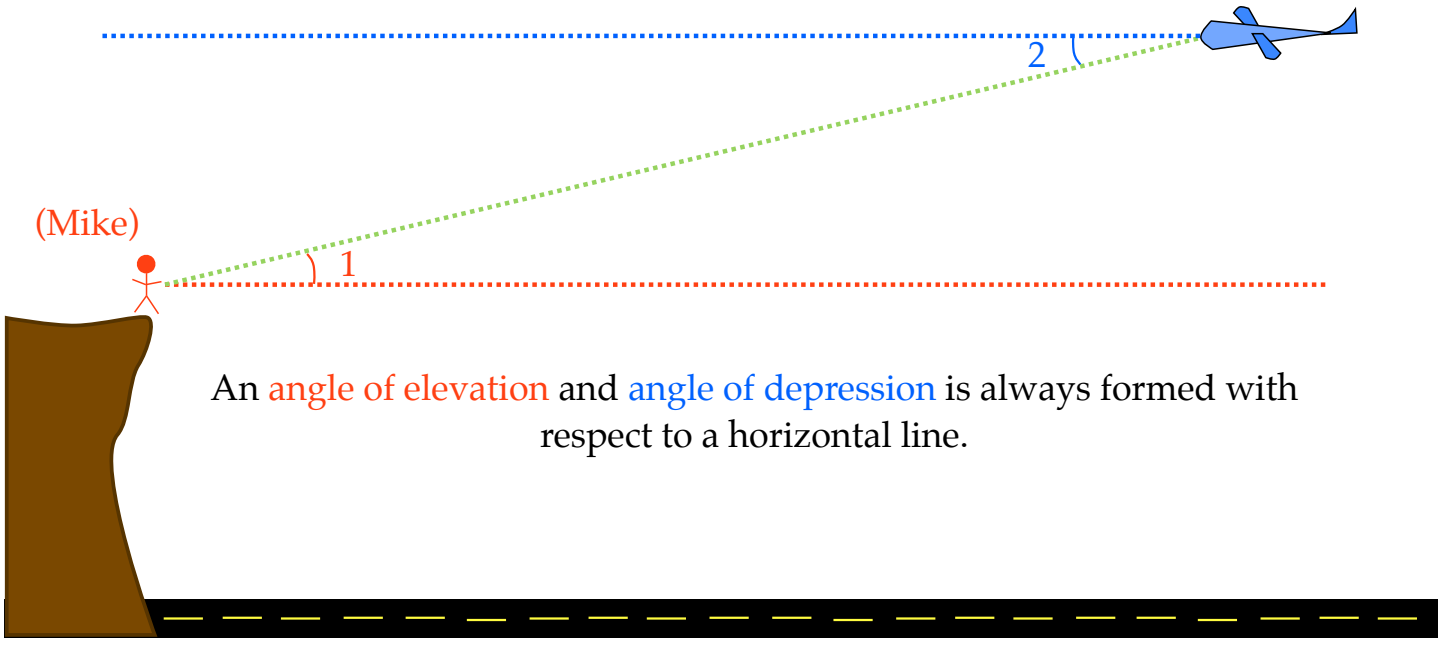
Angles of Elevation and Depression

Name _____

Date _____ Period _____

An angle of elevation and angle of depression is always formed with respect to a horizontal line.





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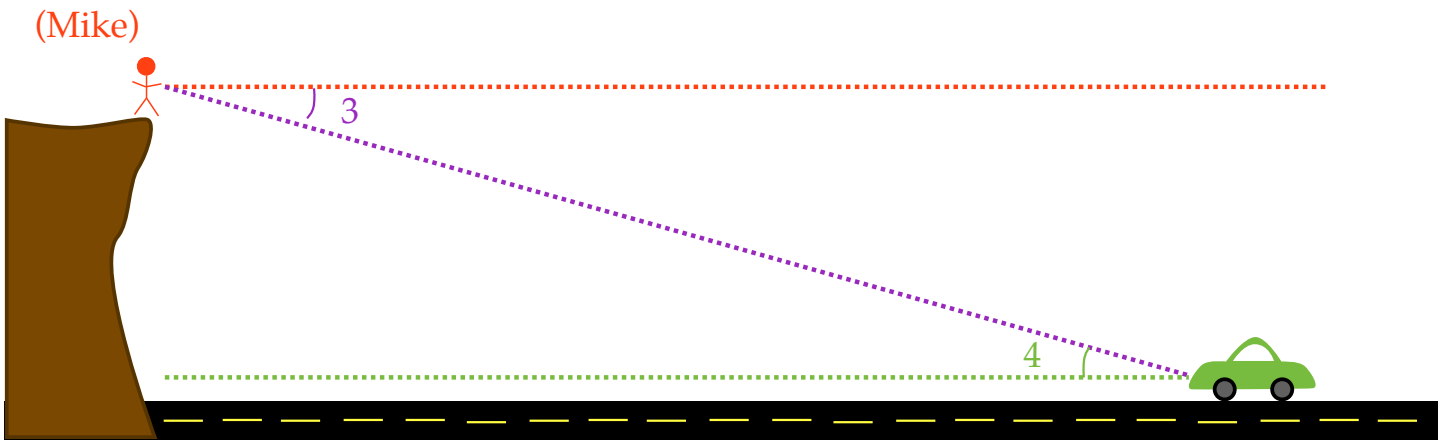
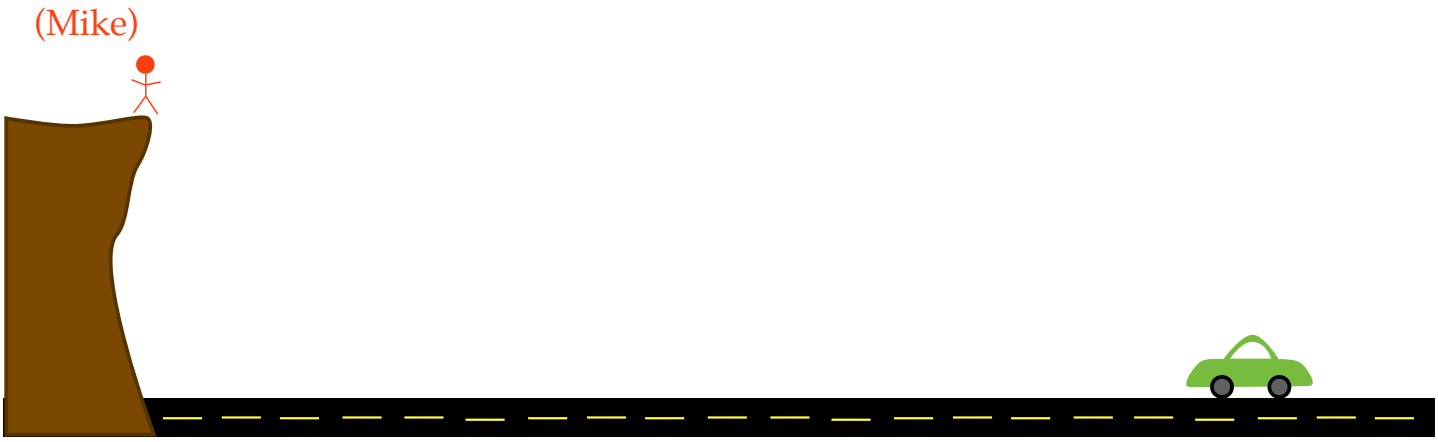
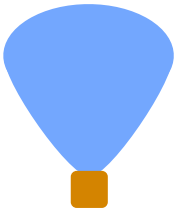


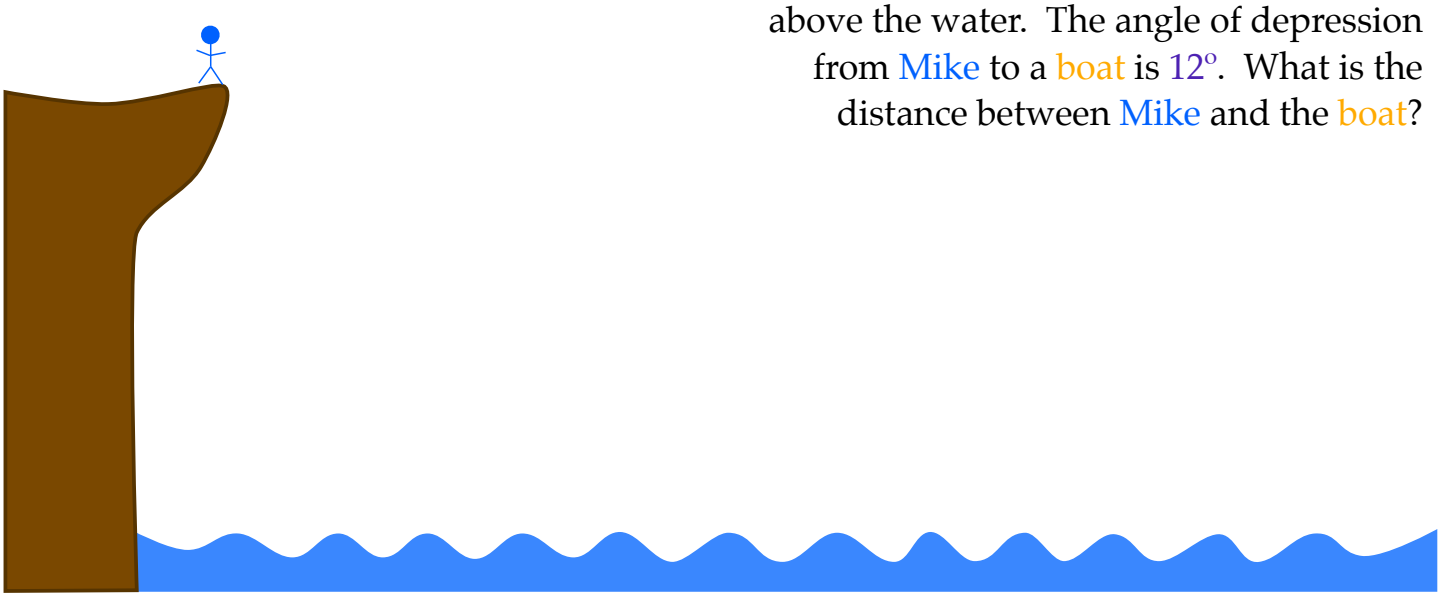
Mike is standing on a cliff that is 80 feet high. If the angle of depression from Mike to the car is 24°, how far away is Mike from the car?



Mike, who is 6 feet tall, sees a hot air ballon with an angle of elevation of 32°. If Mike is 335 ft away from the ballon, how high is the ballon from the ground?



Mike is standing on a cliff that rises 120 feet above the water. The angle of depression from Mike to a boat is 12°. What is the distance between Mike and the boat?



A plane is flying at an altitude of 1600 feet, and spots a car that is 2500 feet away.

What is the angle of depression from the plane to the car?