



## January 09, 2014

Ex 3) From a point 50 feet in front of a church, the angles of elevation to the base of the steeple and the top of the steeple are 35<sup>o</sup> and 47<sup>o</sup> 40', respectively. Draw a picture of the situation. Use a trig function to write an equation involving the unknown quantity. Find the height of the steeple. 47.6 50 50) tan 47. 5° = <u>S+35.01037</u>  $9 \tan 44.6 = 50$   $50 \tan 47.6 = 5+35:0/03+6$   $50 \tan 47.6 = 5+35:0/03+6$   $50 \tan 47.6 = 35.0/03+6= 8$ 50

Ex 4) A global positioning system satellite orbits 12,500 miles above the Earth's surface. Find the angle of depression from the satellite to the horizon. Assume the radius of the earth is 4,000 miles.



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