## Classwork 14 Precalculus MTH 130 Instructor: Abhijit Champanerkar

Name:

**1.** Sketch the triangle below and solve it using Law of Sines (you may get more than one solution).

(a) (SAA)  $\angle A = 30^{\circ}, \angle C = 65^{\circ}, b = 50.$ 

(b) (SSA)  $a = 30, c = 40, \angle A = 37^{\circ}$ .

2. (The leaning tower of Pisa) The bell tower of the cathedral in Pisa, Italy, leans  $5.6^{\circ}$  from the vertical. A tourist stands 105 m from its base, with the tower leaning toward her. She measures the angle of elevation to the top of the tower to be  $29.2^{\circ}$ . Find the lenght of the tower to the nearest meter.