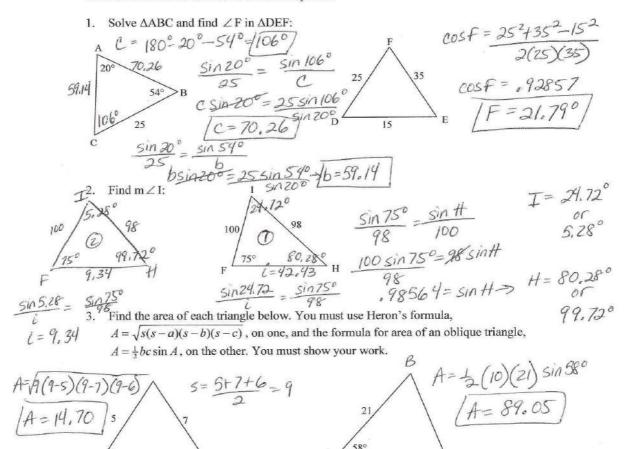
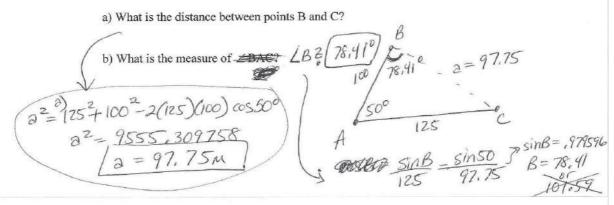
Pre-Calculus Chapter 6 Test Individual Test Review All answers must be accurate to 2 decimal places.



 You and Bob are standing on point A. You walk 100 meters to point B. Bob walks 125 meters to point C. There is a 50° angle between your path and Bob's path.



5. An aerial tram stats at a point 500 feet from the base of a mountain whose face has a 50° angle of elevation. The tram ascends at an angle of 10°.



b) How high is the mountain?

a)
$$\frac{\sin 40^{\circ}}{500} = \frac{\sin 130^{\circ}}{b}$$

 $\frac{1}{b} = 595.88 ft$

$$A = \frac{10^{\circ}}{500 \text{ ft}} + \frac{10^{\circ}}{695.88}$$

$$h = \frac{695.88}{695.88}$$

$$h = \frac{695.88}{695.88}$$

$$h = \frac{695.88}{695.88}$$

$$h = 695.888 \sin 10^{\circ}$$

 $h = 103.47 ft$