Name:

**Practice Test**

A

**Chapter** **3** **–** **Trigonometry**

1. Solve the following RIGHT Triangles.

18cm

B

E

37m

D

30m

F

1. Find length AB

A

7cm

12cm

D

C

120 ◦

B

1. Solve each triangle using the Law of Sines. There may be 0, 1, or 2 triangles.
2. ∠A= a=16cm b=19cm
3. ∠A= a=16cm b=18cm
4. ∠A= a=19cm b=20cm
5. ∠A= a=13cm b=11cm
6. Solve each triangle using the Law of cosines.
7. a=5cm b=6.5cm ∠F=
8. a=5.2mm b=4.0mm c=4.5mm
9. Two trees (of different heights) are 100 m apart. From the point on the ground halfway between the trees, the angles of elevation to the top of the trees are and. Determine the distance between the tops of the two trees.
10. After a hurricane, the small tree in my neighbor’s yard was leaning. To keep it from falling, we nailed a 6-foot strap into the ground, 4 feet from the base of the tree. We attached the strap to the tree 3.5 feet above the ground. What angle was the tree leaning at?