# Activity 11.6 The Law of Cosines

Solve .

1. 

2. 

3. 

4. 

5. 

Use the Law of Sines, the Law of Cosines, or the Pythagorean Theorem to solve .

6. 

7. 

8. 

9.You are a surveyor measuring the width of a pond from point A to point B, You set up a transit point C on the bank in between A and B and measure an angle of . You also measure the distances from C to points A and B. the distance from C to A is 56 feet and from C to B is 68 feet. What is the width of the pond?

# Answers:

1. 

2. 

3. 

4. 

5. 

6. 

7. 

8. 

9. about 74.4 feet.