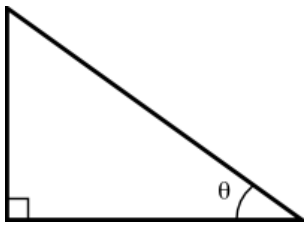
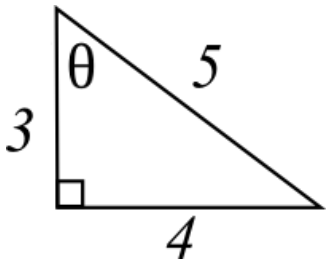
Unit 5-Lesson 1 Introduction to Trig Functions

- Trig Functions are ratios used to find missing _____ or _____ in triangles
    - We will focus on three trig functions →
        - _____(sine)
        - _____(cosine)
        - _____(tangent)
- When finding missing sides/angles, you will be required to label the sides of the triangle according to their relationship to a given angle. The sides will either be:
    1. _____ (if it doesn't touch the angle)
    2. _____ (if it isn't the hypotenuse but touches the angle)
    3. _____ (if it directly across from the right angle)
- First, identify the hypotenuse, then the other two sides will be easier to label
- In trig functions, the variable θ (the Greek letter theta) is often used instead of x

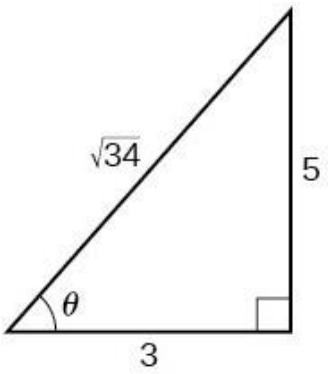
1. In the right triangle shown here, identify each of the sides as opposite, adjacent, or hypotenuse based on their relation to the angle θ



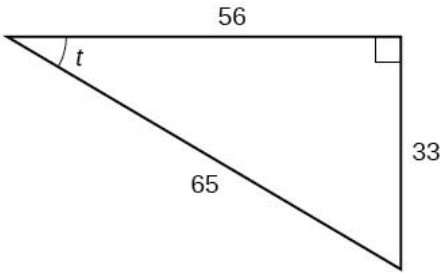
2. Given the right triangle to the right, identify which side represents the opposite, adjacent or hypotenuse of the angle θ.
    - Opposite = _____
    - Adjacent = _____
    - Hypotenuse = _____



3. Given the right triangle to the right, identify which side represents the opposite, adjacent or hypotenuse of the angle θ.
    - Opposite = _____
    - Adjacent = _____
    - Hypotenuse = _____

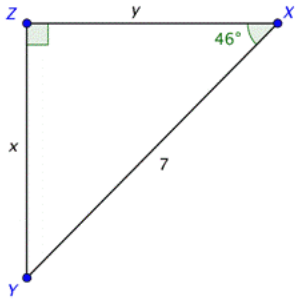


4. Given the right triangle to the right, identify which side represents the opposite, adjacent or hypotenuse of the angle t.



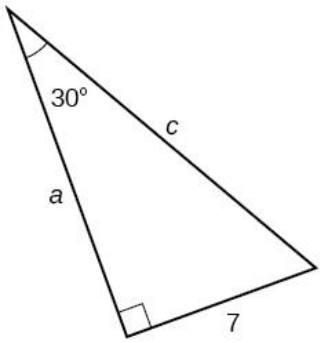
- Opposite = _____
- Adjacent = _____
- Hypotenuse = _____

5. Given the right triangle to the right, identify which side represents the opposite, adjacent or hypotenuse of the 46° angle.



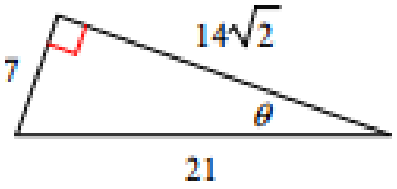
- Opposite = _____
- Adjacent = _____
- Hypotenuse = _____

6. Given the right triangle to the right, identify which side represents the opposite, adjacent or hypotenuse of the 46° angle.



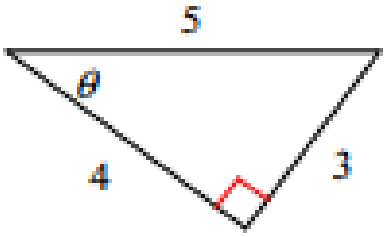
- Opposite = _____
- Adjacent = _____
- Hypotenuse = _____

7. Given the right triangle to the right, identify which side represents the opposite, adjacent or hypotenuse of the angle θ.



- Opposite = _____
- Adjacent = _____
- Hypotenuse = _____

8. Given the right triangle to the right, identify which side represents the opposite, adjacent or hypotenuse of the angle θ.

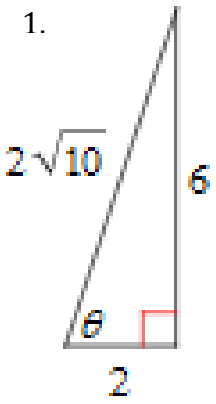


- Opposite = _____
- Adjacent = _____
- Hypotenuse = _____

Unit 5-Lesson 2 Practice – Intro to Trig: Identifying Triangle Sides

Identify each side of the triangle below based on the angle θ.

1.

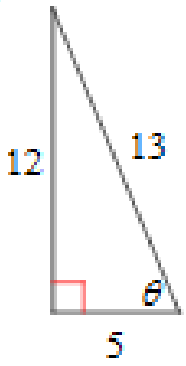


Opposite = _____

Adjacent = _____

Hypotenuse = _____

2.

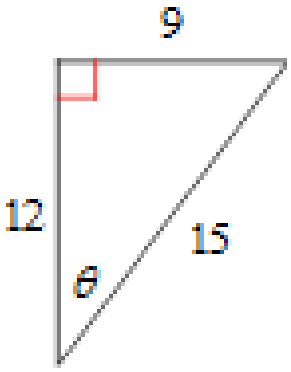


Opposite = _____

Adjacent = _____

Hypotenuse = _____

3.

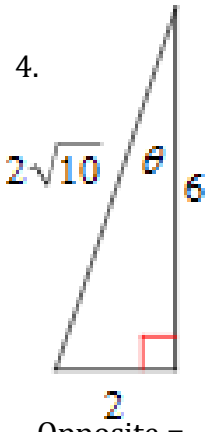


Opposite = _____

Adjacent = _____

Hypotenuse = _____

4.

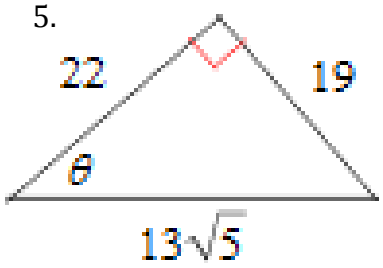


Opposite = _____

Adjacent = _____

Hypotenuse = _____

5.

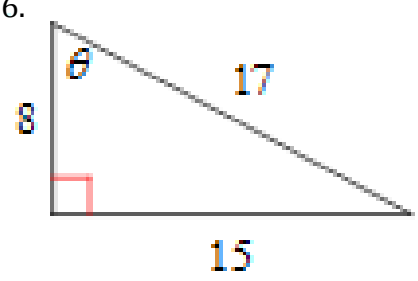


Opposite = _____

Adjacent = _____

Hypotenuse = _____

6.

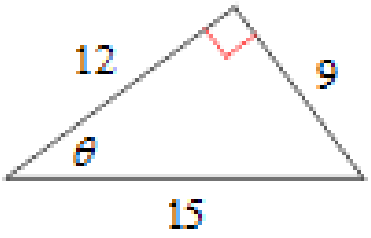


Opposite = _____

Adjacent = _____

Hypotenuse = _____

7.

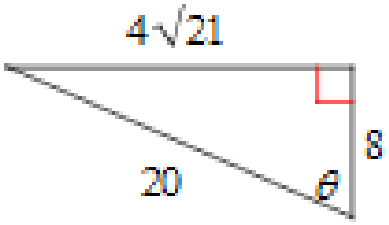


Opposite = _____

Adjacent = _____

Hypotenuse = _____

8.

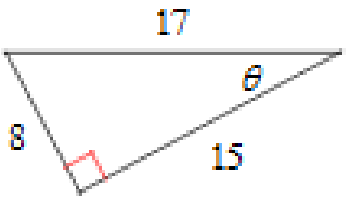


Opposite = _____

Adjacent = _____

Hypotenuse = _____

9.



Opposite = _____

Adjacent = _____

Hypotenuse = _____