Precalculus   Name _____
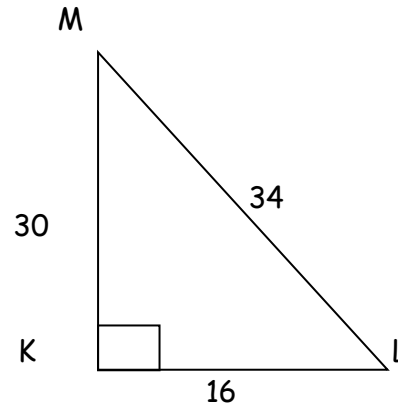Intro to Trig HW   Date_____Period_____

Find the indicated trigonometric ratio as a fraction and as a decimal rounded to the nearest tenths.
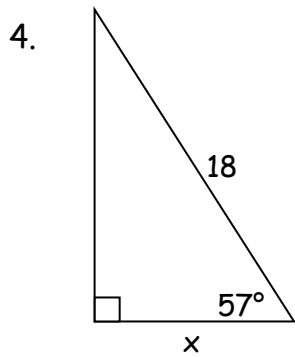
1. sin M =_____ or _____

2. tan L=_____ or _____

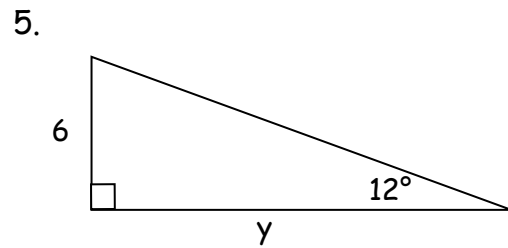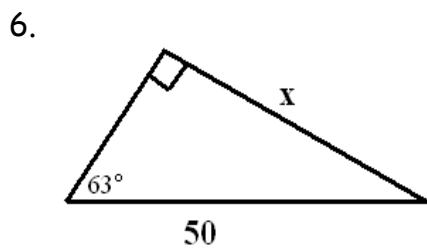**3.** cos L=_____ or _____

Find the value of x and y. Round the lengths of segments to the nearest tenth.

4.

x = _____

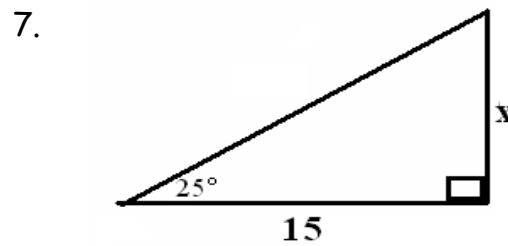5.

y = _____

6.

x = _____

7.

x = _____

8.

x = _____, y = _____

9.
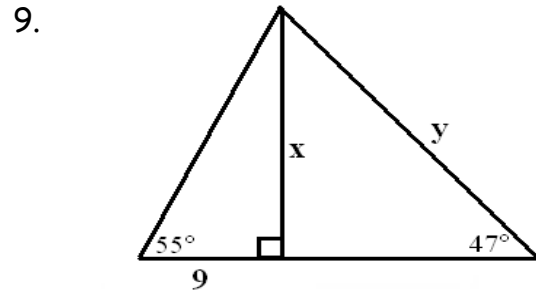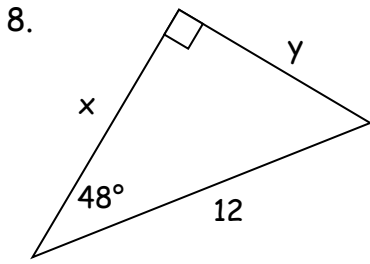
x = _____, y = _____

10. You are preparing to land an airplane. You are on a straight-line approach path that forms a 3° angle with the runway. What is the distance *d* along this approach path to your touchdown point when you are 500 feet above the ground? Round your answer to the nearest foot.

11. The angle of elevation from a sailboat to the top of a 121-ft lighthouse on the shore measures 16°. To the nearest foot, how far is the sailboat from shore?