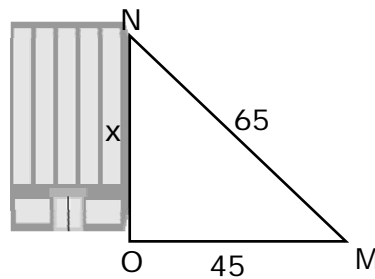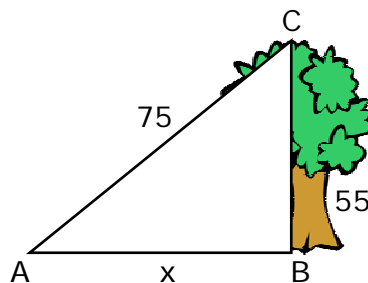Name _____   Date _____

Cos and Sin Trigonometric Ratios - Guided Lesson

Complete the following problems:

1) Jacob lives in an apartment. He comes to his apartment from the school. He saw that his building shadow is 45 meters. He then sees the top of the building. The slope of the building is 65 meters long. What is the height of the building?

N

x

65

O   45   M

2) One day Earl went to the garden. He was playing around the tree. He stays at the point A, where shadow of the tree ends. The distance from that point, to the top of the tree point C is 75 feet. The measured height of the tree is 55 feet. What is the distance of point A to bottom point B of tree?

C

75

55

A   x   B

3) Irvin is a little boy, he loves shining star stickers. His mother pastes a shining star sticker at the point R, which is top of the cupboard. The height of the cupboard is 20 feet. Irvin looks from his knees at the point Q and saw the shining star sticker. His position makes a 25° angle. Calculate the distance from point Q to point R.

R

x

20

25°

Q   P