

# CHAT Geometry

## Christmas Extra Credit Problem

(5 extra credit points)

All that is needed to solve the puzzle below is a compass and ruler. (Hint: Use 1 yard = 1 cm as your scale when you draw/construct your picture below.)

Sam has 6 pine trees growing in his front yard and he has placed different colored lights on each one. The red tree is 6 yards from the orange tree. The blue tree is 5 yards from the red tree and 7 yards from the orange tree. The pink tree is 4 yards from the orange tree and 5 yards from the blue tree and it is farther from the red tree than it is from the orange tree. The green tree is half way between the pink and orange trees. The yellow tree is 6 yards from the blue tree and lies between the red and orange trees. How far apart are the yellow and green trees (to the nearest tenth of a yard)?