1) In right triangle ABC, CD is the altitude drawn to hypotenuse AB. The length of AD is 21 inches less than the length of BD.
      a) If BD = x, write an expression for the length of AD in terms of x.
      b) If CD = 10", find the length of AD.

2) In right triangle ABC, CD is the altitude drawn to hypotenuse AB. The length of BD is 3 inches less than five times the length of AD.
      a) If AD = x, write an expression for the length of BD in terms of x.
      b) If CD = 6 inches, find the length of AD.

3) In right triangle ABC, CD is the altitude drawn to hypotenuse AB. The length of DB is five units longer than AD.
      a) If AD = x, write an expression for the length of DB, in terms of x.
      b) If CD = 6, find the length of DB.

4) In right triangle ABC, CD is the altitude drawn to hypotenuse AB. The length of AD is 30 units longer than DB.
      a) If DB = x, write an expression for the length of AD, in terms of x.
      b) If CD = 8, find the length of AD.