Problems solved by Quadratic Equations

1) The length of a rectangle is 6cm more than the width. The area of the rectangle is 150cm^2. Find the width of the rectangle to 2 decimal places.

2) A right angled triangle has sides x, x+7 and x+8 cm long.
(a) Using Pythagoras' theorem, write down an equation.
(b) Simplify your equation. (It should come to $x^2 - 2x - 15 = 0$)
(c) Solve this equation to find the value of x.

3) A man owns two square plots of land. The sides of the bigger plot are 6m longer than the sides of the smaller plot. The total area of the plots is 356m^2. If the length of the sides of the smaller plot is x,
(a) Write down an equation.
(b) Simplify your equation (it should come to $x^2 + 6x - 160 = 0$)
(c) Solve this equation to find the value of x.

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