Quiz 114 ···

Solve using any method. Leave your answers as improper fractions or radicals in simplest form, if applicable.

1. $2(x + 4)^2 - 16 = 0$

2. $x^2 + 10x + 24 = 0$

3. $5x^2 - 20x + 20 = 0$

4. $2x^2 + x - 2 = 0$

5. One leg of a right triangle is 4 cm longer than the shorter leg and 4 cm shorter than the hypotenuse. Find the dimensions of the triangle.