Blake Q's #5

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These questions are all related to each other and build up. If you do not understand a section look at the solutions.

Question 1

Factorize equation 1.

$$x^2 + 6x + 9 \tag{1}$$

Question 2

Building from question 1, factorize equation 2.

$$3x^2 + 18x + 27 \tag{2}$$

Question 3

Building from question 2, factorize equation 3. (Once you figure it out it is really simple)
Hint: Let a variable such as y equal something that is repeated to make it simpler.

$$3x^{20} + 18x^{10} + 27 \tag{3}$$