1- Solve by factoring:

a. $x^2 = 5x + 6$

b. $x = x^2 - 12$

c. $2x^2 + x = 15$

2- Solve each equation by the square root method:

a. $2x^2 - 1 = 17$

b. $(3x^2 - 2)^2 + 16 = 0$

c. $(2x^2 - 3)^2 = 25$

3- Solve each equation by using the quadratic formula:

a. $6y^2 + 11y = 10$

b. $3(x^2 + 1) = 2x^2 + 4x + 1$

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