Completing the Square and Quadratic Formula Quiz

I. Factor by Completing the Square

a) $x^2 + 4x + 8$

b) $x^2 + 3x - 4$

c) $-x^2 + 4x + 9$

d) $4x^2 - 8x + 17$

e) $\dfrac{x^2}{3} + 2x + 10$

f) $5x^2 + 3x + 1$

II. Solve by Completing the Square

a) $x^2 + 4x = 7$

b) $-2x^2 + 9x + 3 = 0$

c) $x^2 + 6x = -11$

III. Solve using the Quadratic Formula

a) $x^2 + 7x - 3 = 0$

b) $2x^2 + 8x = -4$

c) $-x^2 + 3x + 5 = 0$