

The Dragon Academy
G11 Functions and Applications
Term 3
Assignment 4
Due date: Tue Apr. 9 2019

April 4, 2019

Solve for x the following equations by (1) first transforming each into a quadratic equation in standard form and (2) then actually solve it using the quadratic formula. Provide your answers with at most 2 decimal digits.

1. $-5x + 7 = -2x^2 + 3x + 10$

2. $3(x - 3)(x - 4) = 2x + 10$

3. $7(x - 1)^2 - 3 = x$

4. $x^2 - 7x + 8 = -x$

5. $5x - 3 = -x^2 + 10$

6. $-5(x + 2)^2 - 5x^2 = 11x^2 - 7$