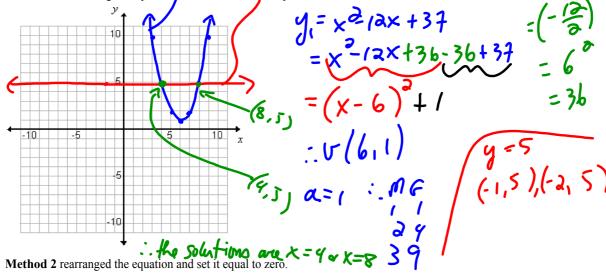
MCF 3MI

Unit 3 - REVIEW 2

Solving Quadratic Equations by Graphing (Lesson 3 3)

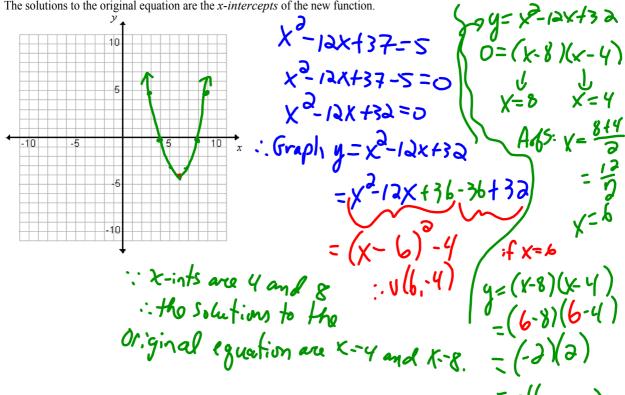
Ex. 1 Determine the solutions to the quadratic equation $x^2 - 12x + 37 = 5$ by graphing. [Keep in mind we are looking for the values of x that satisfy this equation.]

Method 1 split the equation and graphed the related functions on the same grid. $y_1 = x^2 - 12x + 37$ $y_2 = 5$ The solutions to the original equation are the x values of the points of intersection of the two functions.



Then graph the related quadratic function to determine the solutions to the quadratic equation.

The solutions to the original equation are the *x-intercepts* of the new function.



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Today's Work: pp. 186-188 # 1 – 15