Secondary 2
lesson 5.5

Solve Quadratics with a calculator

Objective:

Understand and properly use the calculator menus
Know what a zero is and how to find it
Use the calculator window correctly
Navigate the graph correctly to find solutions

Factor and solve:

Example 1) $17x^2 - 2x - 31 = 0$

Step 1: factor

Step 2: umm, I don't think so

Step 3: $get\ out\ your\ calculator$

Graph each on your calculator and find the zero's.

1. $x^2+12x+36=0$

2. $x^2-17x+66=0$

3. $x^2-5x-14=0$

Before you can solve you must set the equation equal to zero!!

Example 2) $x^2+25=-10x$

Step 1:

Step 2:

x=

Graph each on your calculator to find the zero's.

4. $x^2 + 7x = 30$

5. $2x^2 + 22x = 120$

6. $x^2 - 64 = 0$

Graph each on your calculator to find the zero's.

7. $4x^2 - 25 = 0$

8. $(3x - 7)(2x - 9) = 0$

9. $(x + 6)(x - 4) = 0$

Graph each on your calculator to find the zero's.

10. $4x^3 + 22x^2 = 0$

11. $x^3 + 7x^2 - 9x - 63 = 0$

13. $x^2 + 25 = 0$