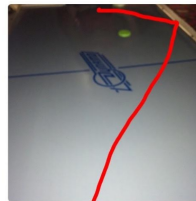Tuesday, September 6th

Homework on your desk!

Do Now:

1) Correct one problem from your formative assessment.

2) Write one thing you can improve on in this course, I want to help you succeed!

Common Mistakes:

1) Not taking the square root:

$$\sqrt{-25} = 25i$$

2) Leaving the square root:
$$\sqrt{-16} = i\sqrt{4}$$

3) Changing multiplication into addition:

$$-2\sqrt{-25} = -2 + 5i$$

4) Adding i plus i incorrectly:

$$5i + 4i = 9i^2$$

5) Turning addition into multiplication:

$$(2 + 3i) + (5 - 4i)$$
$$= 10 + 15i - 8i - 12i^2$$

6) Forgetting to distribute the negative:

$$(3 + 4i) - (7 + 3i)$$
$$= 3 + 4i - 7 + 3i$$

Solving Quadratics with the Quadratic Formula

Do this anytime, but especially when you cannot factor. Make sure ALL terms are on one side of the equation.

$$x^2 + 5x - 10 = 0$$

$$3x^2 - 4x + 6 = 0$$

Learning Targets:

Instructional Focus 1: I can factor and solve quadratics

Instructional Focus 2: I know and can use complex numbers

Factoring:

1) Check for GCF

2) If four terms, factor by grouping

3) If three terms, factor using long or short abc

4) If two terms look for perfect squares.

Exit Ticket

What is the quadratic formula?