Chapter 4.5- finding square roots

solve by finding the square root

$$3(p+1)^2 = 81 \qquad 7(x-4)^2 - 18 = 10$$

Chapter 4.6 complex numbers

if a=4-i and b=-2+3i find

a+b   a-b   ab   reduce:a/b

solve:

$$-5(n-3)^2 = 10 \qquad 2x^2 + 18 = -72$$

whats the absolute value of -3-4i

Chapter 4.7- complete the square

solve by CTS

$$x^2 - 10x + 1 = 0 \qquad 7t^2 + 28t + 56 = 0$$

whats the vertex form and vertex?

$$y = x^2 + 18x + 95$$

Chapter 4.8- Quadratic Formula

Find the discriminant. What does that tell you? find the roots.

$$x^2 - 6x + 7 = 0 \qquad 8c^2 - 4c + 2 = 5c - 11$$

Chapter 4.9 - systems and inequalities.

what is important in a system? How do you know when to shade? how do you know what kind of graph to use?

solve(name a sol. that works) and graph:

$$\begin{cases} y = 5x - 3 \\ y = -2x + 2 \end{cases} \qquad \begin{cases} y > x2 - 3 \\ y \le -2x^2 + 4x + 2 \end{cases}$$

$3x^2 - 9x - 12 < 0$

Chapter 4.10- make functions

know vertex, intercept, standar forms

find the equation of the parabola through a vertex (5,0) and (2,-27)

find the equation of the parabola through (3,0),(7,0),(6,-9)

- Remember anything we have talked about can/will be on the test

- If you need more problems look at the Chapter review on pg. 320

- I am here every morning for extra help.