Adv Alg 2 Week 13 Tuesday

NO CALCULATOR

When you are finished with warm-up, work on Chapter 4 Review

Simplify

1. i^{93}

i

2. $\dfrac{5}{2+3i}$

10/13-15/13i

3. $(3-8i)-(5+2i)$

-2-10i

Find the discriminant. Describe the roots.

4. $3(x+1)^2-7=0$

$b^2-4ac = 84$;

2 irrational roots

5. $2x^2-4x+3=0$

$b^2-4ac = -8$;

2 imaginary roots

Solve the quadratic inequality.

6. $3x<-x^2+4$

-4<x<1

open

$x^2+3x-4<0$

$(x+4)(x-1)<0$

$x+4=0 \quad x-1=0$

$x=-4 \quad x=1$

	$(x+4)(x-1)$
x=-5	(-)(-)= +
x=0	(+)(-) = -
x=2	(+)(+) = +