

Chapter 5 Test Bonus

Name _____

Put Answers in
Spaces provided.
Show all work!

Simplify

1. $(5i)(9i)$ _____

2. $(5\sqrt{7}-9i)-(\sqrt{7}+3i)$ _____

3. Factor.

a) $81x^2-121$ _____

b.) $x^2+6x-40$ _____

c.) $2x^2-5x-3$ _____

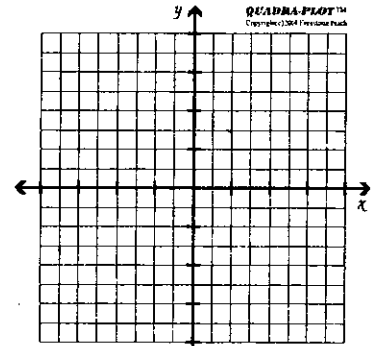
4. Find the value of the discriminant and state the number of real solutions.

$3x^2-4x=6$ _____

5. Solve by *completing the square*. $x^2+4x-24=0$ _____

No decimal answers.

Simplify any radicals.



(Graph all points.
Label axes.)

6. Solve by quadratic formula. _____

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

7. Find the additive inverse.

a) $5-2i$ _____

b.) $-3+i$ _____

c.) $6i$ _____

8. Solve by Factoring. _____

$2x^2-6x=8$