## Topic:

## Class:

## Main Ideas/Questions Notes/Examples

## COMPLETING THESQUARE

(when $a>1$ )
(2) Divide the equation by $a$.
(3) Take half of $b$, square it, then add this to both sides.
(4) Factor the perfect square trinomial.
(5. Take the square root of both sides and solve for both cases.

Directions: Solve each equation by completing the square.

## YOU TRY!

3. $5 x^{2}+10 x-34=6$
4. $4 x^{2}+8 x+3=0$
5. $3 x^{2}-24 x-44=1-x^{2}$
6. $8 x^{2}+16 x=90$

Directions: Solve each equation by completing the square. Simplify all

## IRRATIONAL SOLUTIONS

 irrational solutions.7. $2 x^{2}-16 x+22=0$
8. $4 x^{2}+40 x-12=0$
9. $3 x^{2}-6 x-3=90$
10. $5 x^{2}+30 x-4=16$
