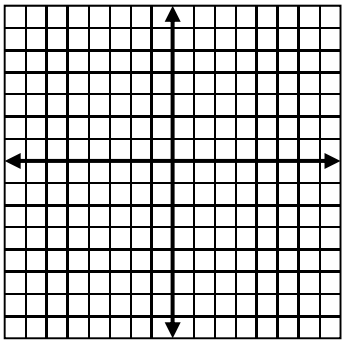
AA2 Wk 13 Friday

Quadratics Systems Wksht #1

Directions: Make a sketch of each system and state how many solutions you believe there to be. Then, ***<u>using algebra</u>***, solve the system and state exact solutions.

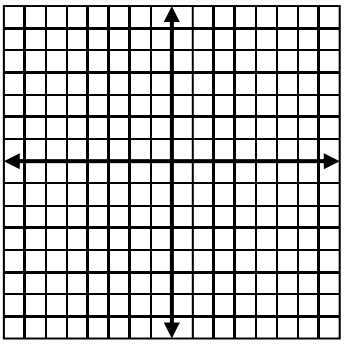
1. $x^2-y^2=1$
   $x^2+y^2=5$



# of solutions?_____

Exact solutions:

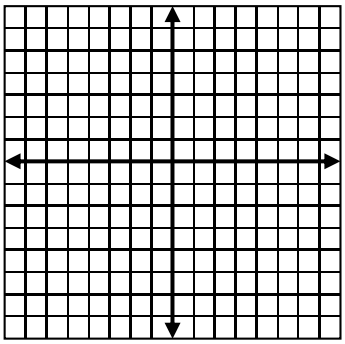
2. $y=x^2$
   $x^2+y^2=12$



# of solutions?_____

Exact solutions:

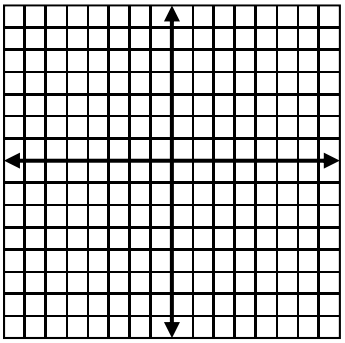
3. $2x^2+y^2=3$
   $y=x^2$



# of solutions?_____

Exact solutions:

4. $x^2+2y^2=4$
   $4x^2-9y^2=-36$



# of solutions?_____

Exact solutions:

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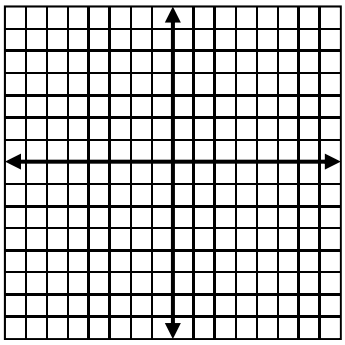
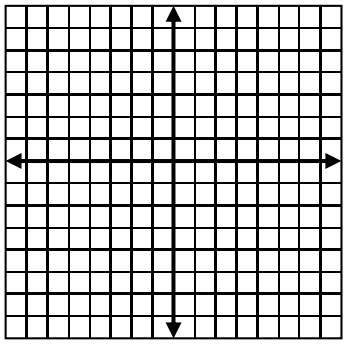
5. $2x^2=-y^2+18$
$2x^2=y^2+10$



# of solutions?_____

Exact solutions:

6. $x=y^2-2$
$x^2-4y^2=4$



# of solutions?_____

Exact solutions: