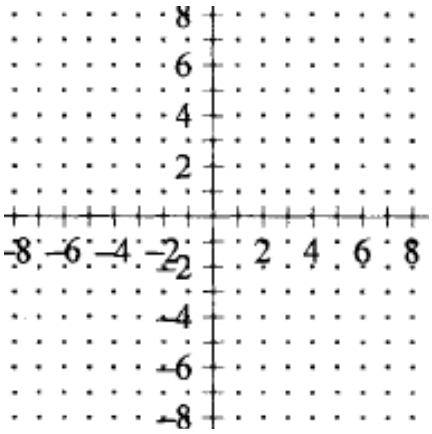
Algebra 2/Trig—H HW #_____ Name_____

Worksheet 10-6 &10-7

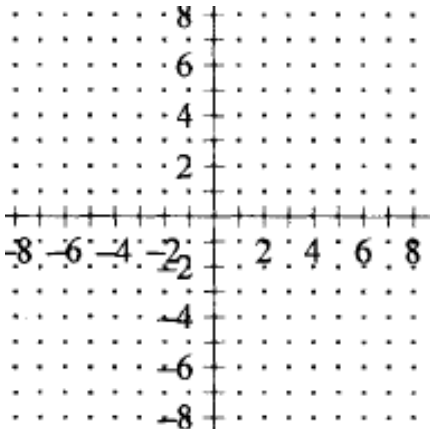
Date_____Per._____ Col_____

#1-5: Solve and graph each system. The solutions from graphing and solving should be the same! Show solving work on your own paper and staple to this page.

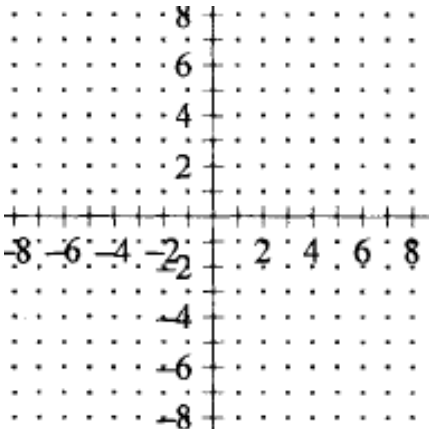
1. $x^2 - 4y = 0$
   $x + 2y = 4$



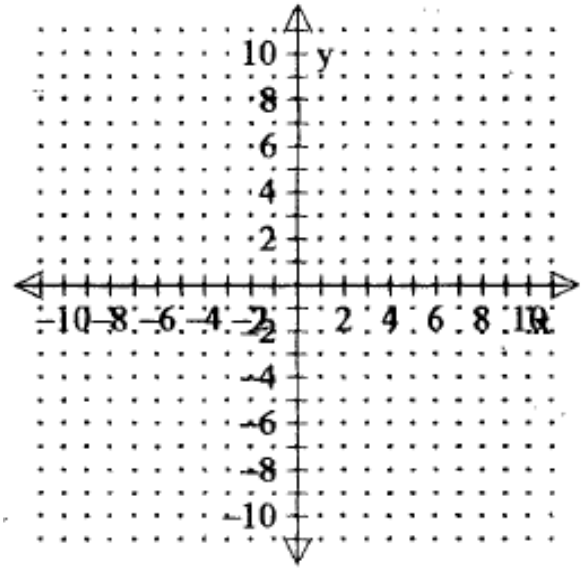
2. $x^2 + y^2 = 25$
   $x - 2y = -5$



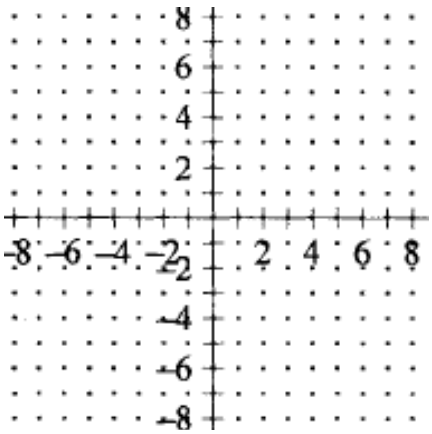
3. $2x^2 + y^2 = 36$
   $x^2 - 2y^2 = 8$



4. $xy = -20$
   $y^2 - x^2 = 9$



5. $y^2 + x^2 = 9$
   $16y^2 - 9x^2 = 144$

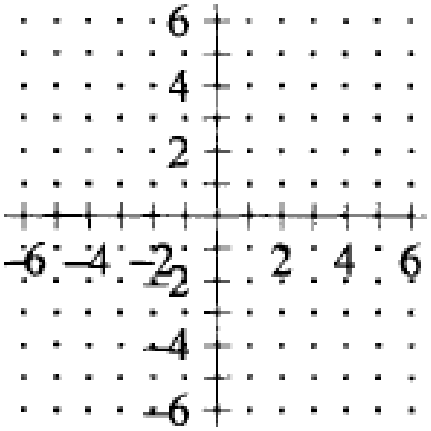


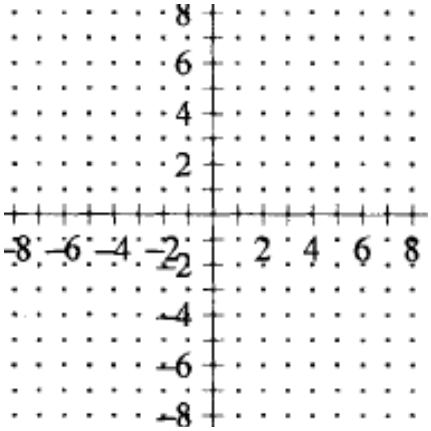
6. Solve the system: $xy = 3$
   $2y^2 - x^2 = 7$

Identify each conic and use CTS to rewrite in standard form. Graph each conic and give the vertex or center and vertices. Find and locate the focus or foci. Show work NEATLY in space provided or on attached paper.

7. $3y^2 - 12y + 4x + 20 = 0$

8. $5x^2 + 5y^2 - 30x - 40y + 45 = 0$





9. $4x^2 + y^2 - 48x - 4y + 48 = 0$

10. $4y^2 - 9x^2 - 36x - 16y - 164 = 0$