

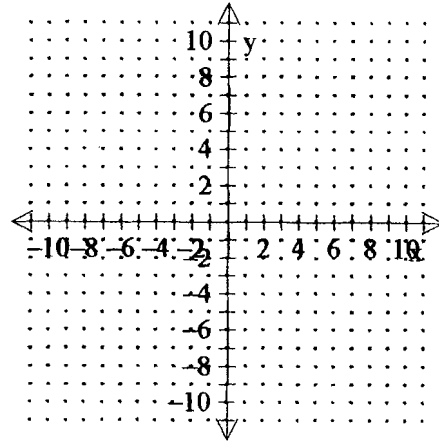
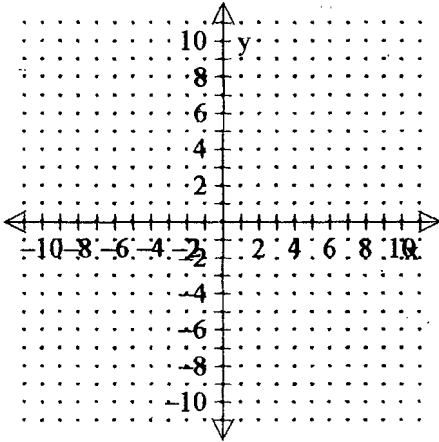
# 1-5:

Solve and graph each systems. Attack paper as needed for your algebra work.

Date \_\_\_\_\_

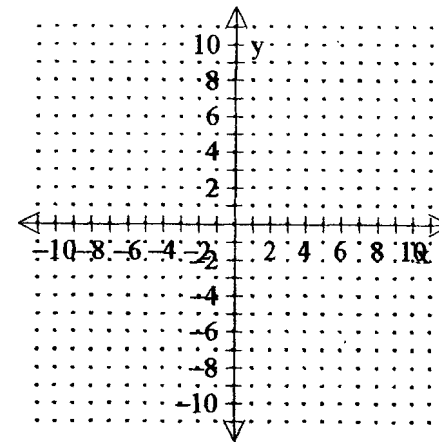
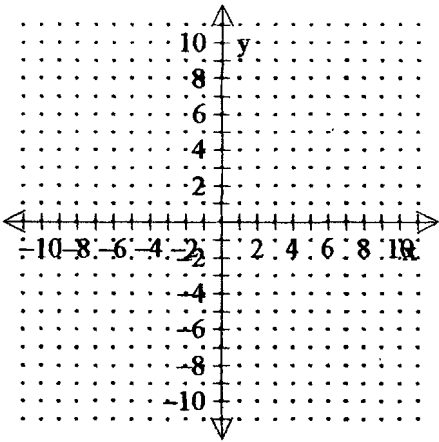
1.  $x^2 - 4y = 0$   
 $y - 2x = -3$

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



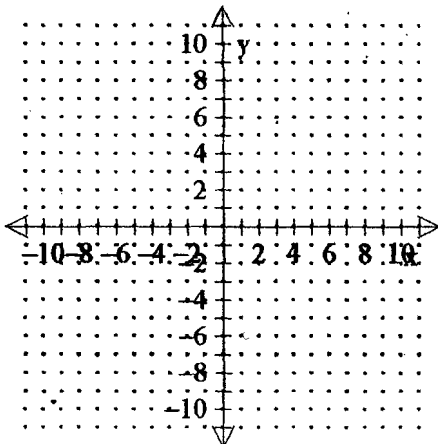
3.  $xy = -6$   
 $y^2 - x^2 = 5$

4.  $2x^2 + y^2 = 36$   
 $x^2 - 2y^2 = 8$



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

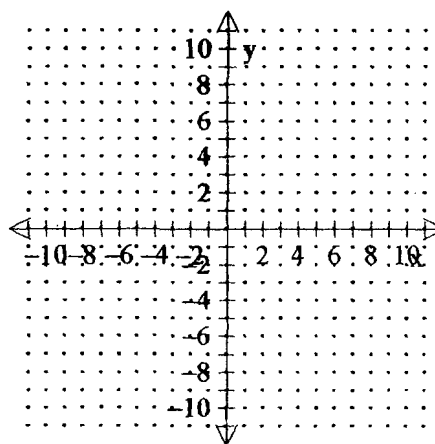
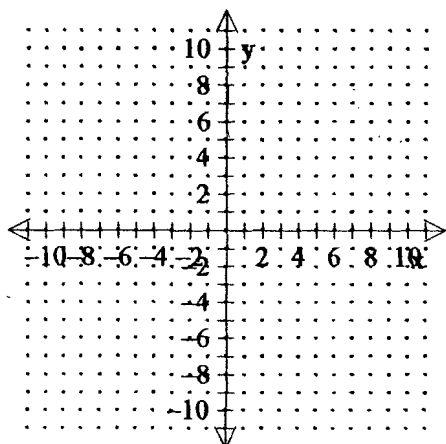
6. Solve only.  $xy = 3$   
 $2y^2 - x^2 = 7$



Identify each conic, rewrite in standard form, graph, give vertex or center and vertices.  
 Show work!

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

