

**Business PreCalculus**    MATH 1643 Section 004, Spring 2014  
**Homework 11: Due 2/17/2014**

---

- 1- Find the  $x$ - and  $y$ -intercepts of the graph of the equation:  $x = y^2 - 5y + 6$ .
- 2- Test the equation for symmetry with respect to the  $x$ -axis,  $y$ -axis, and the origin:
  - a.  $x^2y^2 + 2xy = 1$ .
- 3- Find the center and the radius of the circle:
  - a.  $3x^2 + 3y^2 + 6x = 0$
- 4- Find the distance between  $P$  and  $Q$  where:
  - a.  $P = (-4, 1)$ ,  $Q = (-7, -9)$ .
- 5- Find the coordinates of the midpoint of the line segment  $AB$ :
  - a.  $A = (-1, -5)$ ,  $B = (2, -3)$ .