**ROTATION OF AXES HOMEWORK**

1. Identify each equation without completing the square
2. Write each equation in terms of a rotated system using the angle of rotation. Write the equation involving and in standard form
3. Write the appropriate rotation formulas so that in a rotated system the equation has no term
4. Rewrite the equation in a rotated system without an term.
   * + Use the appropriate rotation formulas from Exercises 15–26.
     + Express the equation involving and in the standard form of a conic section.
     + Use the rotated system to graph the equation