

1. Move the constant (F) to the right side of the equation.
2. Collect all the x terms in one parenthesis and the y terms in another.
3. Take out from each parenthesis the common factor.
4. Add one-half the square of the coefficient of the x and y terms inside the respective parentheses.
5. Balance the equation by adding the same values, multiplied by the respective factors outside the parentheses, to the right side of the equation.
6. Complete the square in each parenthesis.
7. Divide both sides of the equation by the constant on the right hand side.
8. Identify the conic.

