

For each of the conics:

- Identify class/type, b. write in standard form, and c. indicate position, that is center/vertex and “Which way does it open?” or “Which direction does the major axis or the transverse axis lie?”)
- Provide your answers in the appropriate box. Thank you.

1. $x^2 + x + 2y - \frac{3}{4} = 0$

Class/type:

Standard Equation:

Center/Vertex
Direction:

2. $4y^2 + 9x^2 + 18x - 27 = 0$

Class/type:

Standard Equation:

Center/Vertex
Direction:

3. $25x^2 - 4y^2 + 50x + 16y - 91 = 0$

Class/type:

Standard Equation:

Center/Vertex
Direction: