- Show all your work for each problem; show enough work to fully justify your answer.
- Simplify all answers as far as possible.
- All numerical answers must be in terms of actual numbers.
- Identify your answers clearly.
- (1) [Points: 15] Here is the equation of an ellipse: $x^2 + 3x + 4y^2 4y = \frac{3}{4}$.
 - (a) Where is its center?
 - (b) What is the semimajor axis? The semiminor axis?
 - (c) Sketch the curve on the coordinate system shown here.