1. Put the equation $9x^2 + 4y^2 + 36x - 32y + 64 = 0$ into standard form (the first step is to complete squares in $x$ and $y$)

Center of conic:________
Endpoints of major axis:________________________
Endpoints of minor axis:________________________
Next solve your equation for $y$, so that you can graph on your calculator.

$Y_1 = \underline{\quad} \quad Y_2 = \underline{\quad}$

Viewing window for complete graph: $[\quad,\quad] \times [\quad,\quad]$ 
Confirm your graph has the center, and axis endpoints you found earlier.

2. The equation $x^2 - 4xy + 4y^2 - 3x + 2y - 35 = 0$ represents a standard conic section that is rotated and translated. Solve the equation for $y$, and graph on your calculator. What type of conic section is this? How do you know for certain?

$Y_1 = \underline{\quad} \quad Y_2 = \underline{\quad}$

Viewing window for complete graph: $[\quad,\quad] \times [\quad,\quad]$ 
Conic:________________________. Why?: