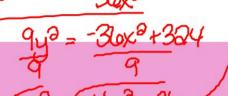
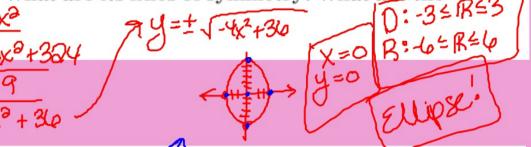
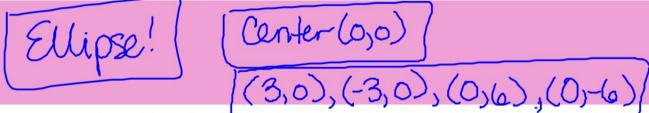
10.1 - Review - Warm - up

1. What is the graph of $36x^2 + 96 = 324$? What are its lines of symmetry? What are the domain and range? - 30x2





2. Name the conic section with the graph $36x^2 + 9y^2 = 324$. What are the center and intercepts?



3. Of the three equations listed, which equation might be a model for each situation?

$$x^{2} + y^{2} = 25; x^{2} + 25y^{2} = 400; y^{2} - x^{2} = 9$$

- $x^2 + y^2 = 25$; $x^2 + 25y^2 = 400$; $y^2 x^2 = 9$ a. the path of a comet around the Sun Ellipse
- b. the rim of a pizza Grade
- c. a conic section consisting of two smooth curves intersecting the y-axis Hyperlook