

QUIZ 10 - MATH 152

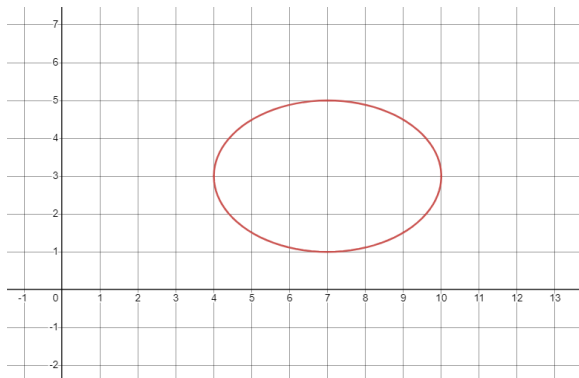
Friday, December 8

YOUR NAME: _____

George Voutsadakis

Read each problem **very carefully** before starting to solve it and do only what is asked. Each problem is worth around 5 points. It is necessary to show **all** your work. Correct answers without explanations are worth 0 points. GOOD LUCK!!

1. [6 points] Find the center, the foci and an equation for the ellipse shown below.



2. [6 points] Suppose a hyperbola has vertices $(-5, 0)$ and $(5, 0)$ and asymptotes $y = -\frac{3}{5}x$ and $y = \frac{3}{5}x$. Find the locations of its foci and an equation for it.