## QUIZ 4 - MATH 111 <br> YOUR NAME:

Friday, February 23
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. [4 points] William and Harry would like to have some chicken wings. They are trying to decide whether they should go to "Abundant Wings" or to "Bountiful Wings".

- The first outfit (AW) charges a flat $\$ 10$ fee per order and 65 cents per wing.
- The second outfit (BW) charges a flat fee $\$ 7.60$ per order and each wing costs 85 cents.

Find under which condition it is more profitable to buy from "Abundant Wings".
2. [4 points] Consider the quadratic function $f(x)=3 x^{2}-12 x+17$. Write the equation in standard form and find the domain and the range. You need to show all your steps. Also add short explanations.
3. [4 points] Find an equation for the parabola shown and give your answer in general form.


