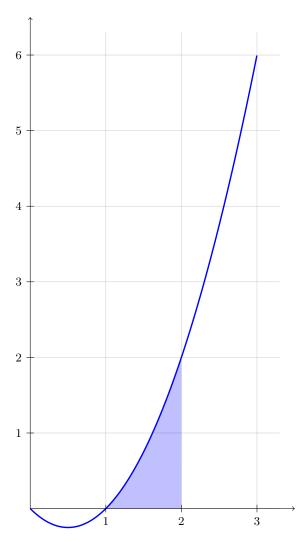
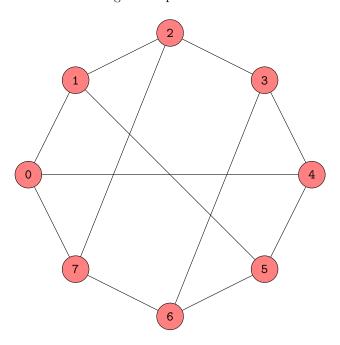
## Assignment 5

## Cameron Fredrickson

1. The graph of the function  $x^2 - x$  on [0,3], with the are underneath the curve on [1,2] representing the area calculated by  $\int_1^2 (x^2 - x) \ dx$ .



2. Wikipedia states: In the mathematical field of graph theory, the Wagner Graph is a 3-regular graph with 8 verticies and 12 edges. In a regular graph each vertex has the same number of neighbors, where vertex B is a neighbor of vertex A if vertex B shares an edge with vertex A. Here is one representation of a Wagner Graph<sup>1</sup>.



<sup>&</sup>lt;sup>1</sup>To graph this I assumed the picture on Wolfram Alpha was of a regular octogon (equiangular and equilateral) turned on it's side. I used simple trigonometry to find the interior angles of the polygon and the locations of the vertices