

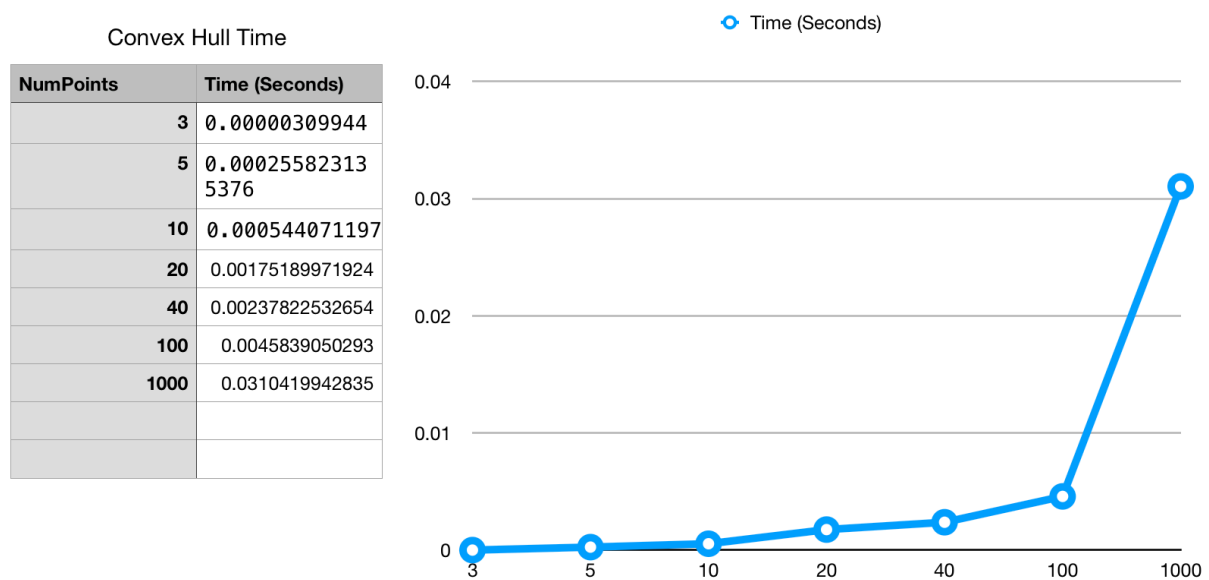
# Assignment 3 Benchmarking

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Our method of generating n amount of points:

```
def generatePoints(n):  
    for i in range(n):  
        points.append(random.randint(0,1000000000), random.randint(0,1000000000))  
    return points
```

Plot:



The graph supports our expectation of the asymptotic complexity of the graph, as it resembles a quadratic function.