

# CISC 868 Fall 2011

## Week 3

September 26, 2011

### **The Number of Triangulations of a Convex Polygon**

I closely followed the presentation in the text that shows that the number of triangulations of a convex polygon with  $n + 2$  vertices is the  $n$ th Catalan number

$$\frac{1}{n+1} \binom{2n}{n}.$$

### **Convex Hull by Divide and Conquer**

Another algorithmic paradigm is used to solve the ubiquitous convex hull problem .