

Triangulation

Art Gallery Problem

- Lower & Upper Bounds

Junhui DENG

deng@tsinghua.edu.cn

Best/Simple Cases

❖ For each $n > 3$, there exists an n -gon P with $G(P) = 1$



Upper Bound

- ❖ It suffices to
cover any polygon by
placing a guard at
each of its vertices
- ❖ This is intuitively true in the plane,
but NOT in higher dimensions
- ❖ For any polygon P , $G(P) \leq |P| = n$

