

Definition

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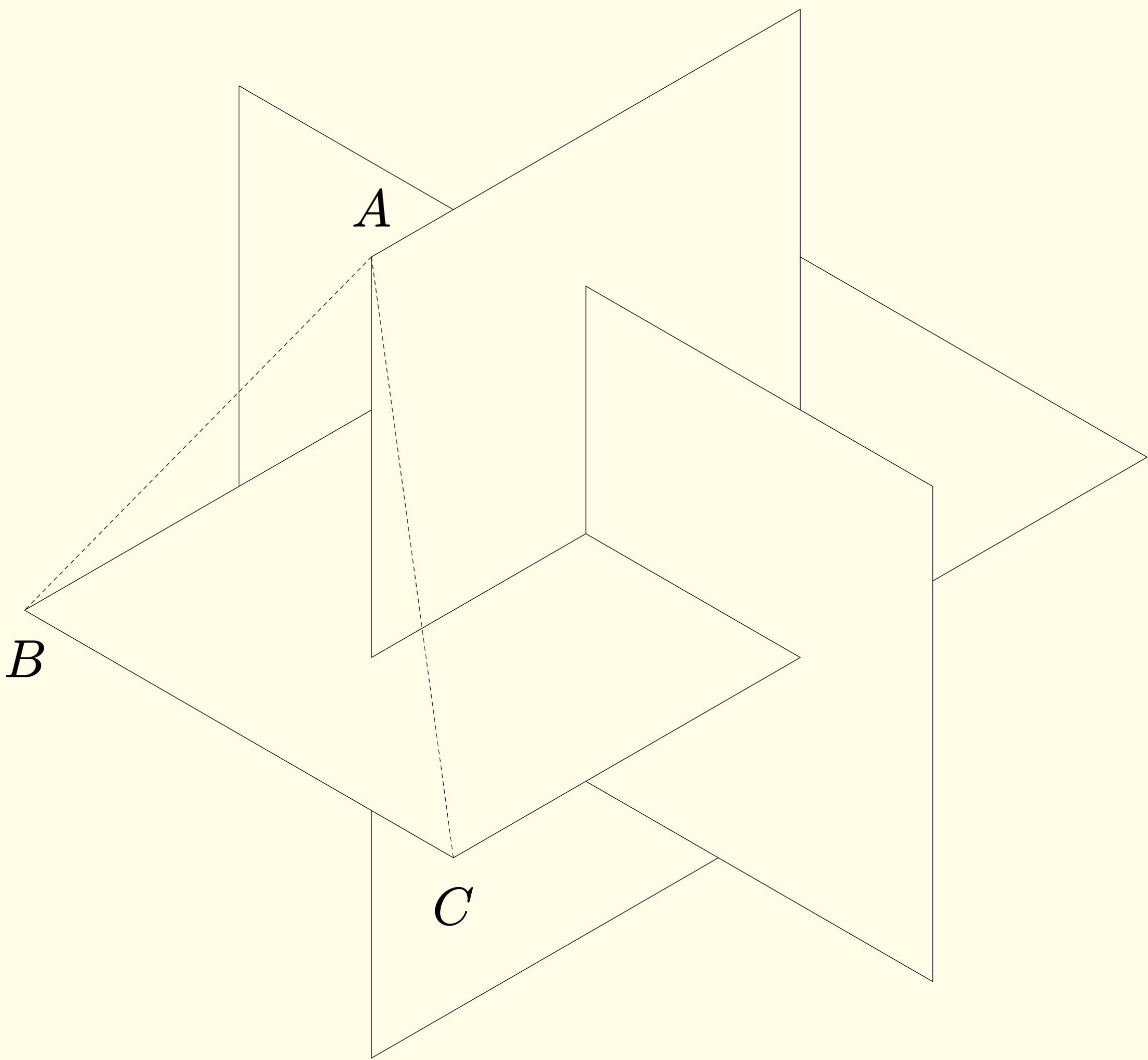
Example

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Definition

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Illustration



Note

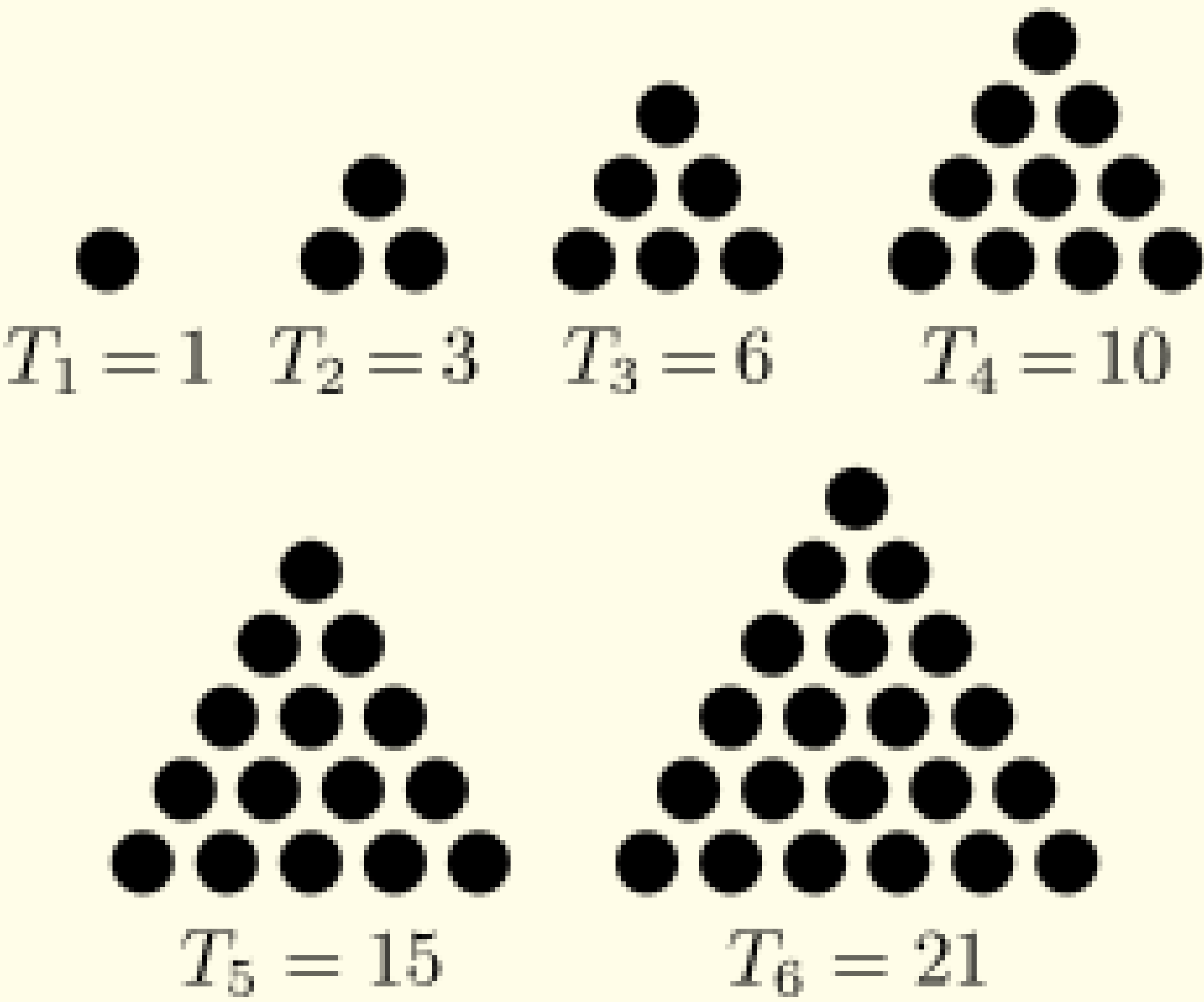
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Theorem

For all  $n \in \mathbb{N}$ ,

$$\sum_{i=0}^n i = \frac{n(n+1)}{2}$$

Illustration



(Illustration from Wikipedia)

Implementation

```
def triangular_sum(n):  
    total = 0  
    while n > 0:  
        total += n  
        n -= 1  
    return total
```

Experimental results

Input	Output
1	1
2	3
3	6
4	10
5	15
6	21
7	28
8	36
9	45
10	55

