

Definition

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua quaerat voluptatem. Ut enim aequa doleamus.

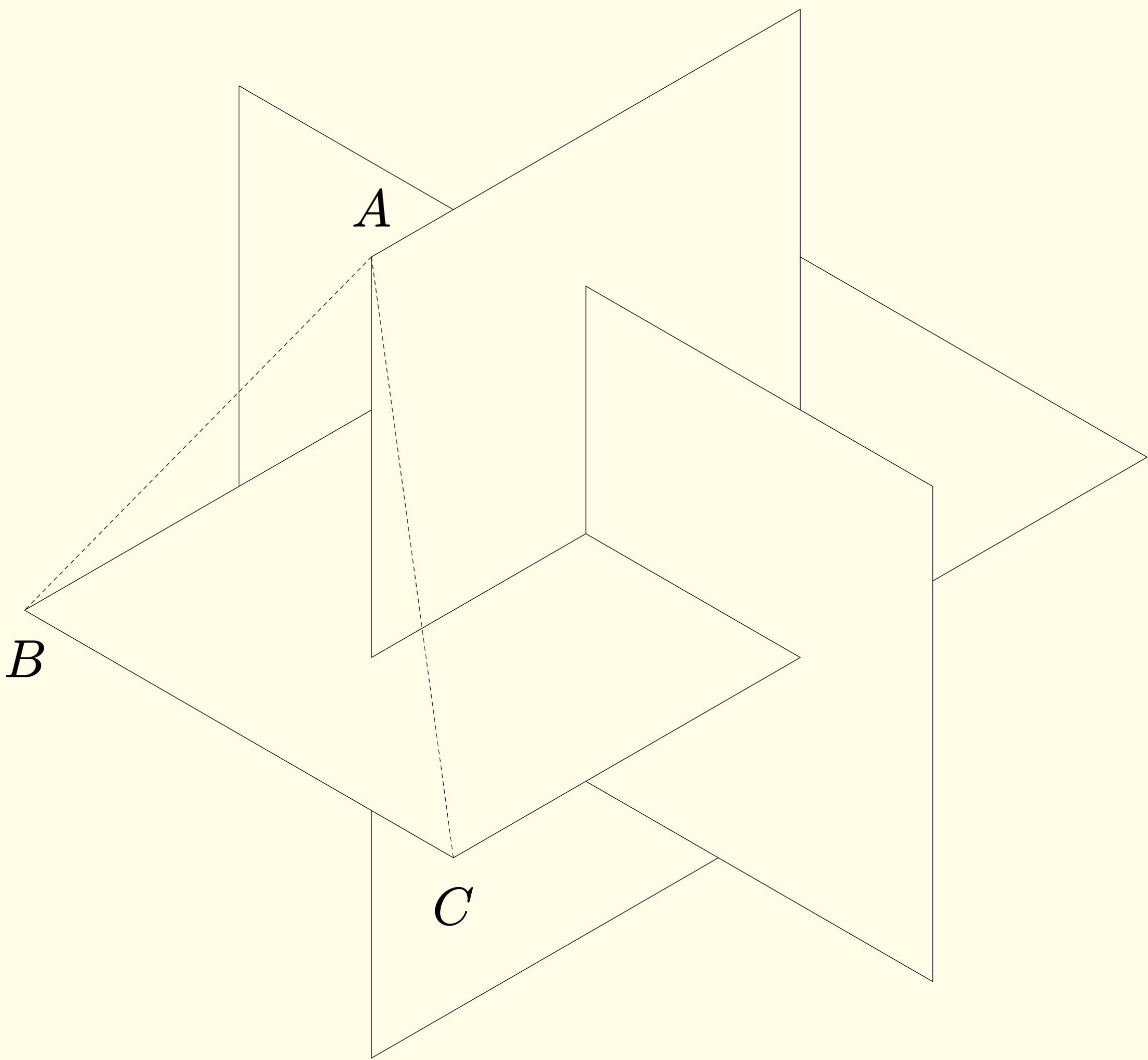
Example

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua quaerat voluptatem. Ut enim aequa doleamus animo, cum corpore dolemus, fieri tamen permagna accessio potest, si aliquod aeternum et infinitum impendere malum nobis opinemur. Quod idem licet transferre in voluptatem, ut.

Definition

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua quaerat.

Illustration



Note

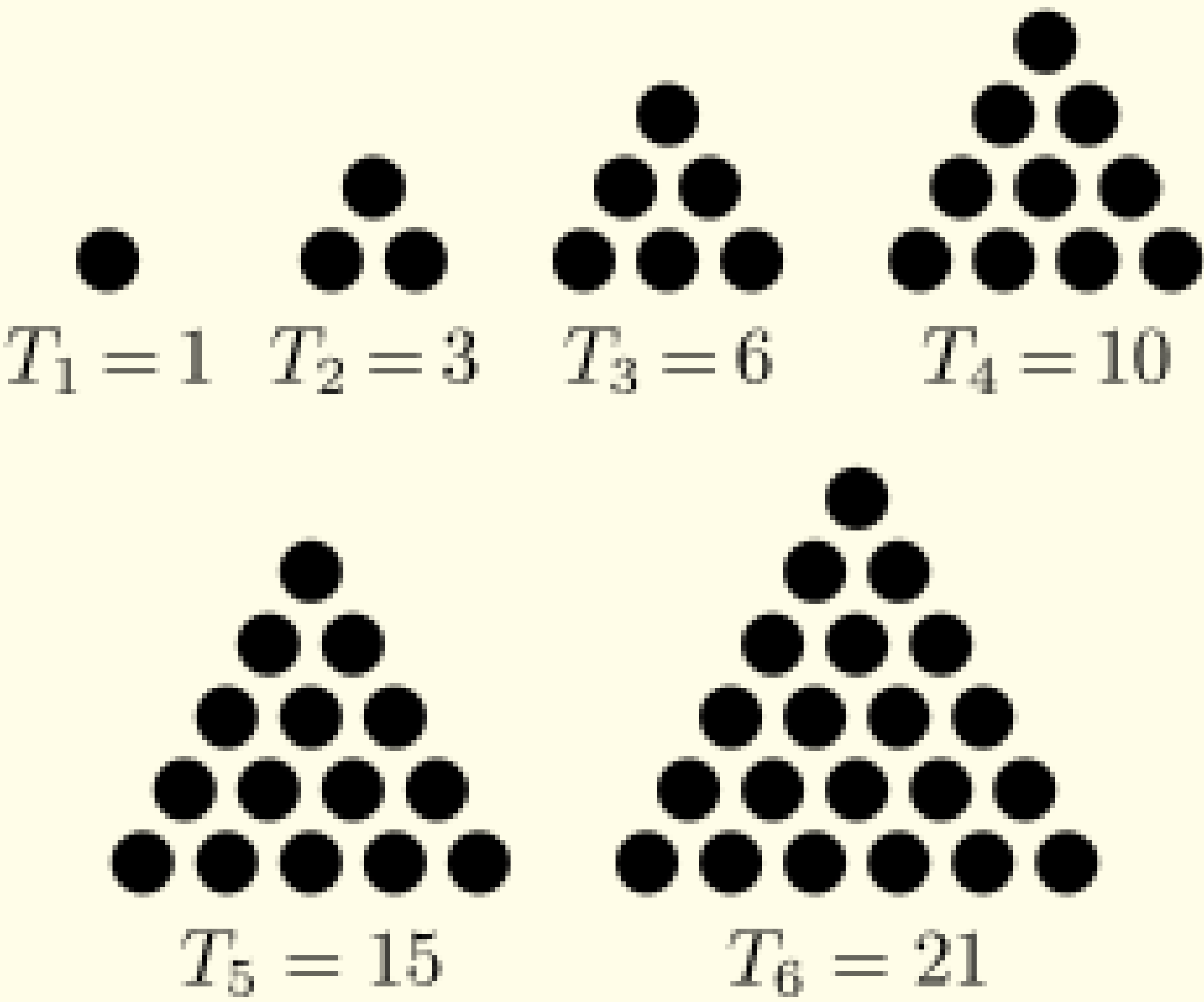
Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua quaerat voluptatem. Ut enim aequa doleamus animo, cum corpore dolemus, fieri tamen permagna accessio potest, si aliquod aeternum et infinitum impendere.

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

