

IMSUM and IMSUB functions - Sum and complex differences in Excel

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1. IMSUM function

Description: The function performs the sum of 2 or more complex numbers in excel.

Syntax: = IMSUM (inumber1, inumber2, .) .

Inside:

- inumber1, inumber2, .: are complex numbers to be summed up, up to 255 complex numbers, at least have 2 complex numbers.

Attention:

- The sum of 2 complex numbers is calculated as follows:

$$(a + bi) + (c + di) = (a + c) + (b + d)i$$

For example:

Sum the following complex numbers:

	A	B	C	D	E
2		Cách sử dụng hàm IMSUM			
3					
4					
5		Số phức 1	Số phức 2	Số phức 3	
6		3 + 9i	18 - 6i	21 + 3i	
7		Tổng 2 số phức 1 và 2 là:			
8		Tổng 2 số phức 2 và 3 là:			
9					
10					

In the first and second complex numbers, enter the following formula: **IMSUM (B6, D6)** -> Press **Enter** -> the sum of 2 and 1 complex numbers is:

	A	B	C	D	E
2		Cách sử dụng hàm IMSUM			
3					
4					
5		Số phức 1	Số phức 2	Số phức 3	
6		3 + 9i	18 - 6i	21 + 3i	
7		Tổng 2 số phức 1 và 2 là:		21+3i	
8		Tổng 2 số phức 2 và 3 là:			
9					
10					

In the cell to sum of 3 complex numbers, enter the formula: **IMSUM (B6, C6, D6)** -> The sum of 3 complex numbers is:

	A	B	C	D	E
2		Cách sử dụng hàm IMSUM			
3					
4					
5		Số phức 1	Số phức 2	Số phức 3	
6		3 + 9i	18 - 6i	21 + 3i	
7		Tổng 2 số phức 1 và 2 là:		21+3i	
8		Tổng 2 số phức 2 và 3 là:		42+6i	
9					
10					

2. IMSUB function

Description: The function returns the difference of two complex numbers of the format $x + yi$ or $x + yj$.

Syntax: IMSUB (inumber1, inumber2) .

Inside:

- **inumber1** : The first complex number, is the subtracted number

- **inumber2** : is the second complex number, minus number.

Attention:

- IMSUB function has only 2 parameters and cannot subtract 3 or more complex numbers.

- The difference is calculated based on the formula:

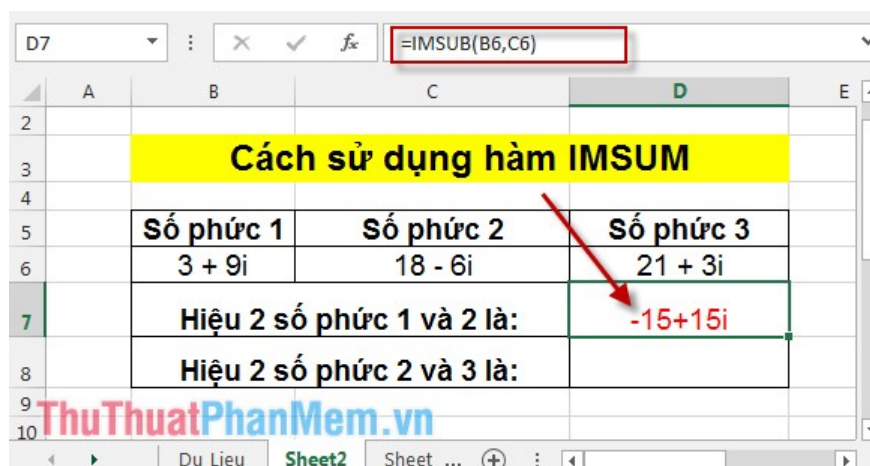
$$(a + bi) - (c + di) = (a - c) + (b - d)i$$

For example:

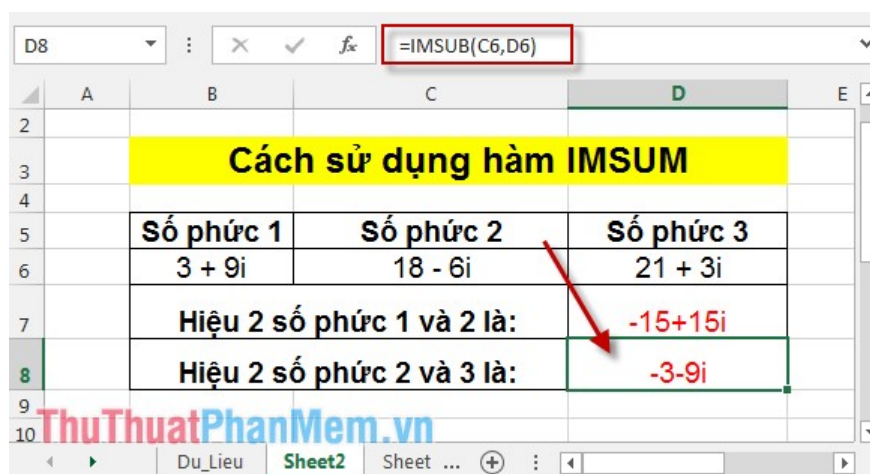
Calculate the difference of 2 complex numbers 1 and 2, 2 and 3.

	A	B	C	D	E
2					
3		Cách sử dụng hàm IMSUM			
4					
5		Số phức 1	Số phức 2	Số phức 3	
6		3 + 9i	18 - 6i	21 + 3i	
7		Hiệu 2 số phức 1 và 2 là:			
8		Hiệu 2 số phức 2 và 3 là:			
9					
10					

In the cell to calculate difference of the 1st and 2nd complex numbers enter the formula: **IMSUB (B6, C6)** -> Press **Enter** -> the 1st and 2nd complex differences are:



In the cell you need to calculate the difference of the 2nd and 3rd complex numbers enter the formula: **IMSUB (C6, D6)** -> Press **Enter** -> the 2nd and 3rd complex differences are:



The above is a detailed guide on how to use and specific examples of IMSUM and IMSUB functions that hope to help you.

Good luck!

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