
Subject: Re: unwrap modulo 2pi

Posted by [Randall Skelton](#) on Wed, 07 Feb 2001 19:48:10 GMT

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Modulo Operator Notes

quotient: $q = a / b$

remainder: $r = a \bmod b$

So,

a	b	a/b	a mod b
10	3	3	1
3	10	0	3
-10	-3	-3	-1

It is **always** true that $a = q*b + r$ with $\text{abs}(r) < \text{abs}(b)$ and $b \neq 0$

Randall

graham_wilson@my-deja.com wrote:

> My appologies for not being explicit enough...

>

> IDL> a=[2,4,6,8,10,12]

> IDL> a=[2.,4.,6.,8.,10.,12.]

> IDL> b=2*!PI

> IDL> c=a mod b

> IDL> print, c

> 2.00000 4.00000 6.00000 1.71681 3.71681 5.71681

>

> What I mean by 'unwrapping' is: Given I know 'c' and 'b' how do I

> explicitly find a?

>
