

position

rigidbodyA->velocity - KVector2::Cross(rigidbodyA->angularVelocity, ra);

+ Square(raCrossN) * rigidbodyA->m_invI + Square(rbCrossN) * rigidbodyB->m_invI;

// Relative velocity along the normal

if (contactVel > 0)

// Calculate impulse scalar

j /= (float)contact_count;

return;

j /= invMassSum;

float contactVel = KVector2::Dot(rv, normal);

// Do not resolve if velocities are separating

float raCrossN = KVector2::Cross(ra, normal);

float rbCrossN = KVector2::Cross(rb, normal);

float j = -(1.0f + restitution) * contactVel;

float invMassSum = rigidbodyA->m_invMass + rigidbodyB->m_invMass

$$(a',b') = (4, 4, b) \otimes (a, b, \phi)$$

$$\Rightarrow (a-x, b-y, -\theta)$$

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$$(b-y) + (4, 4, b)$$

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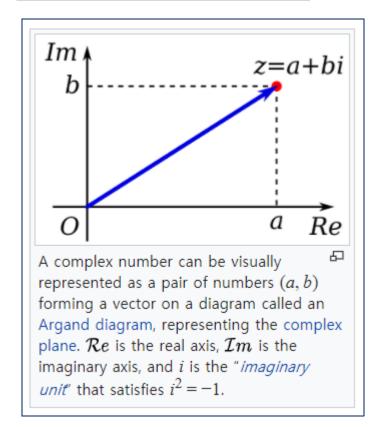
$$\Rightarrow (a-x) + (4, 4, b) \otimes (a, b)$$

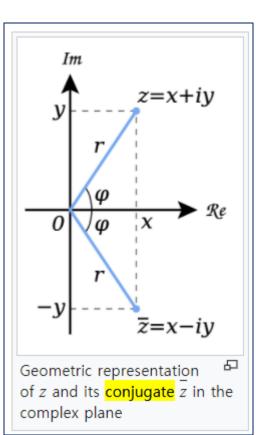
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$$\Rightarrow ($$

Complex number





Euler's formula [edit]

Euler's formula states that, for any real number y,

$$e^{iy} = \cos y + i \sin y.$$

The functional equation implies thus that, if x and y are real, one has

$$e^{x+iy} = e^x(\cos y + i\sin y) = e^x\cos y + ie^x\sin y,$$

which is the decomposition of the exponential function into its real and imaginary parts.

Quaternion

Quaternions are generally represented in the form

$$a+b\mathbf{i}+c\mathbf{j}+d\mathbf{k}$$

Oustornion

Quaternion				
multiplication table				
	1	i	j	k
1	1	i	j	k
i	i	-1	k	-j
j	j	- k	-1	i
k	k	i	_i	-1

$$\mathbf{a} imes\mathbf{b}=egin{array}{cccc} \mathbf{i} & \mathbf{j} & \mathbf{k}\ a_1 & a_2 & a_3\ b_1 & b_2 & b_3 \ \end{array}$$

