

JAVA.LANG.MATH.ASIN METHOD

http://www.tutorialspoint.com/java/lang/math_asin.htm

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Description

The **java.lang.Math.asin** method returns the arc sine of an angle, in the range of $-\pi/2$ through $\pi/2$. Special cases:

- If the argument is NaN or its absolute value is greater than 1, then the result is NaN.
- If the argument is zero, then the result is a zero with the same sign as the argument.

A result must be within 1 ulp of the correctly rounded result. Results must be semi-monotonic.

Declaration

Following is the declaration for **java.lang.Math.asin** method

```
public static double asin(double a)
```

Parameters

- **a** -- the value whose arc sine is to be returned.

Return Value

This method returns the arc sine of the argument.

Exception

- **NA**

Example

The following example shows the usage of lang.Math.asin method.

```
package com.tutorialspoint;

import java.lang.*;

public class MathDemo {

    public static void main(String[] args) {

        // get a variable x which is equal to PI/2
        double x = Math.PI / 2;

        // convert x to radians
        x = Math.toRadians(x);

        // get the arc sine of x
        System.out.println("Math.asin(" + x + ")=" + Math.asin(x));
    }
}
```

Let us compile and run the above program, this will produce the following result:

```
Math.asin(0.027415567780803774)=0.02741900326072046
```

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