

Hoja de Trabajo en Clase

Online C# Compiler - Online C# | x

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Online C# Compiler IDE

```
1 using System;
2 using System.Collections.Generic;
3 using System.Linq;
4 using System.Text;
5 using System.Threading.Tasks;
6
7 namespace Operadores_aritmeticos
8 {
9     class Program
10     {
11         static void Main(string[] args)
12         {
13             //Operadores aritmeticos
14
15             double num, pot, resultado;
16
17             Console.WriteLine("Digite el numero que quiere elevar: ");
18             num = Convert.ToDouble (Console.ReadLine());
19
20             Console.WriteLine("Digite a la potencia que quiere elevar: ");
21             pot = Convert.ToDouble(Console.ReadLine());
22
23             resultado = Math.Pow(num, pot);
24
25             Console.WriteLine("el resultado es:" + resultado);
26
27             Console.ReadKey();
28         }
29     }
30 }
31 }
```

Result

compiled and executed in 15.911 sec(s)

Digite el numero que quiere elevar: 8
Digite a la potencia que quiere elevar: 5
el resultado es:32768

Note: Please check [our documentation](#), or [Youtube channel](#). for more details

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Online C# Compiler IDE

```
1 using System;
2 using System.Collections.Generic;
3 using System.Linq;
4 using System.Text;
5 using System.Threading.Tasks;
6
7 namespace Operadores_aritmeticos
8 {
9     class Program
10     {
11         static void Main(string[] args)
12         {
13             //Operadores aritmeticos
14
15
16
17             Console.WriteLine("La raiz cuadrada es :" + Math.Sqrt(25));|
18
19             Console.ReadKey();
20         }
21     }
22 }
23
```

Execute Mode, Version, Inputs & Arguments

mono-6.12.0

☐ Interactive

CommandLine Arguments

Execute

Result


compiled and executed in 0.899 sec(s)

```
La raiz cuadrada es :5
```

Ejemplos extras al video

Online C# Compiler - Online C# x ejemplos de metodos matematic x Math Clase (System) | Microsoft x Math.Abs Método (System) | Mic x +

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Online C# Compiler IDE

```
1 using System;
2 using System.Collections.Generic;
3 using System.Linq;
4 using System.Text;
5 using System.Threading.Tasks;
6
7 namespace Operadores_aritmeticos
8 {
9     class Program
10     {
11         static void Main(string[] args)
12         {
13             //Operadores aritmeticos
14
15             decimal[] decimals = { Decimal.MaxValue, 3.5M, 0M, -69M,
16                                   Decimal.MinValue };
17             foreach (decimal value in decimals)
18                 Console.WriteLine($"Abs({value}) = {Math.Abs(value)}");
19
20             Console.ReadKey();
21         }
22     }
23 }
24 }
```

Result

CPU Time: 0.02 sec(s), Memory: 17100 kilobyte(s) compiled and executed in 1.016 sec(s)

Abs(79228162514264337593543950335) = 79228162514264337593543950335
Abs(3.5) = 3.5
Abs(0) = 0
Abs(-69) = 69
Abs(-79228162514264337593543950335) = 79228162514264337593543950335

Note: Please check our [documentation](#), or Youtube [channel](#). for more details

Online C# Compiler IDE

```
1  /// Summary
2  /// The following class represents simple functionality of the trapezoid.
3  /// Summary
4  using System;
5
6  namespace MathClass5
7  {
8      class MathTrapezoidSample
9      {
10         private double m_longbase;
11         private double m_shortbase;
12         private double m_leftleg;
13         private double m_rightleg;
14
15         public MathTrapezoidSample(double longbase, double shortbase, double leftleg, double rightleg)
16         {
17             m_longbase = Math.Abs(longbase);
18             m_shortbase = Math.Abs(shortbase);
19             m_leftleg = Math.Abs(leftleg);
20             m_rightleg = Math.Abs(rightleg);
21         }
22
23         private double GetHeightSmallBase()
24         {
25             return (Math.Pow(m_rightleg, 2.0) + Math.Pow(m_leftleg, 2.0) + Math.Pow(m_longbase, 2.0) - 2 * m_shortbase * m_longbase) / (2 * (m_longbase - m_shortbase));
26         }
27
28         public double GetHeight()
29         {
30             double x = GetHeightSmallBase();
31             return Math.Sqrt(Math.Pow(m_rightleg, 2.0) - Math.Pow(x, 2.0));
32         }
33
34         public double GetSquare()
35         {
36             return GetHeight() * m_longbase / 2.0;
37         }
38
39         public double GetLeftBaseRadianAngle()
40         {
41             double sinX = GetHeight() / m_leftleg;
42             return Math.Round(Math.Asin(sinX), 2);
43         }
44
45         public double GetRightBaseRadianAngle()
46         {
47             double x = GetHeightSmallBase();
48             double cosX = (Math.Pow(m_rightleg, 2.0) + Math.Pow(x, 2.0) - Math.Pow(GetHeight(), 2.0)) / (2 * x * m_rightleg);
49             return Math.Round(Math.Acos(cosX), 2);
50         }
51
52         public double GetLeftBaseDegreeAngle()
53         {
54             double x = GetLeftBaseRadianAngle() * 180 / Math.PI;
55             return Math.Round(x, 2);
56         }
57
58         public double GetRightBaseDegreeAngle()
59         {
60             double x = GetRightBaseRadianAngle() * 180 / Math.PI;
61             return Math.Round(x, 2);
62         }
63
64         static void Main(string[] args)
65         {
66             MathTrapezoidSample trpz = new MathTrapezoidSample(16.0, 9.0, 5.0, 7.0);
67             Console.WriteLine("The trapezoid's bases are 20.0 and 10.0, the trapezoid's legs are 8.0 and 6.0");
68             double h = trpz.GetHeight();
69             Console.WriteLine("Trapezoid height is: " + h.ToString());
70             double d0L = trpz.GetLeftBaseRadianAngle();
71             Console.WriteLine("Trapezoid left base angle is: " + d0L.ToString() + " Radians");
72             double d0R = trpz.GetRightBaseRadianAngle();
73             Console.WriteLine("Trapezoid right base angle is: " + d0R.ToString() + " Radians");
74             double d0L = trpz.GetLeftBaseDegreeAngle();
75             Console.WriteLine("Trapezoid left base angle is: " + d0L.ToString() + " Degrees");
76             double d0R = trpz.GetRightBaseDegreeAngle();
77             Console.WriteLine("Trapezoid right base angle is: " + d0R.ToString() + " Degrees");
78         }
79     }
80 }
```

Result

CPU Time: 0.02 sec(s), Memory: 18380 kilobyte(s)

compiled and executed in 1.07 sec(s)

```
The trapezoid's bases are 20.0 and 10.0, the trapezoid's legs are 8.0 and 6.0
Trapezoid height is: 4.67024886807929
Trapezoid left base angle is: 1.21 Radians
Trapezoid right base angle is: 0.73 Radians
Trapezoid left base angle is: 69.33 Degrees
Trapezoid right base angle is: 41.83 Degrees
```

Note: Please check our [documentation](#), or [Youtube channel](#). for more details

Parte 2

Online C# Compiler IDE

```
1 using System;
2 using System.Collections.Generic;
3 using System.Linq;
4 using System.Text;
5 using System.Threading.Tasks;
6
7 namespace Operadores
8 {
9     class Program
10     {
11         static void Main(string[] args)
12         {
13             //Operadores relaciones
14
15             double peso;
16
17             Console.WriteLine("Digita tu peso: ");
18             peso = Convert.ToDouble(Console.ReadLine());
19
20             if(peso > 100){
21
22                 Console.WriteLine("tu peso es normal");
23             }
24
25             Console.ReadKey();
26
27             ....}
28         ....}
29     }
```

Result

compiled and executed in 4.366 sec(s)

```
Digita tu peso: 150
tu peso es normal
|
```

Note: Please check our [documentation](#) or [Youtube channel](#) for more details

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Online C# Compiler IDE

```
1 using System;
2 using System.Collections.Generic;
3 using System.Linq;
4 using System.Text;
5 using System.Threading.Tasks;
6
7 namespace Operadores
8 {
9     class Program
10     {
11         static void Main(string[] args)
12         {
13             //Operadores logicos
14
15             double peso;
16
17             Console.WriteLine("Digita tu peso: ");
18             peso = Convert.ToDouble(Console.ReadLine());
19
20             Console.WriteLine("Digita tu edad: ");
21             edad = Convert.ToByte(Console.ReadLine());
22
23             Console.Clear();
24
25             if(peso > 100 && edad >=15 ){
26                 Console.WriteLine("Tu peso es normal");
27             }
28             Console.ReadKey();
29         }
30     }
31 }
32
33 }
```

Digita tu peso:
80
Digita tu edad:
17

Tu peso es normal.

Ejemplo de un programa

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Online C# Compiler IDE




```
1 using System;
2 using System.Collections.Generic;
3 using System.Linq;
4 using System.Text;
5
6 namespace Primer_Proyecto
7 {
8     class Program
9     {
10         static void Main(string[] args)
11         {
12             Console.WriteLine("Hola Mundo!");
13
14             // continuar al presionar una tecla
15             Console.WriteLine("Presione Enter para salir");
16             Console.ReadKey();
17         }
18     }
19 }
```

Execute Mode, Version, Inputs & Arguments

mono-6.12.0 ☐ Interactive

CommandLine Arguments

Execute

Result

compiled and executed in 0.997 sec(s)

```
Hola Mundo!
Presione Enter para salir
|
```