

**LABORATORIUM 03****PROSTE MAKRA**

1.

```
Sub Długość1()  
    Range("C1").Value = (Range("a1").Value ^ 2 + Range("b1").Value ^ 2) ^ 0.5  
End Sub
```

```
Sub Długość1_z()  
    Dim x As Double  
    Dim y As Double  
    Dim w As Double  
  
    x = Range("a1").Value  
    y = Range("b1").Value  
    w = (x ^ 2 + y ^ 2) ^ 0.5  
    Range("C1").Value = w  
End Sub
```

---

2.

```
Sub Dodatnia()  
    ActiveCell.Value = Abs(ActiveCell.Value)  
End Sub
```

```
Sub Dodatnia_z()  
    Dim x As Double  
    Dim y As Double  
  
    x = ActiveCell.Value  
    y = Abs(x)  
    ActiveCell.Value = y  
End Sub
```

---

3.

```
Sub Ułamkowa()  
    ActiveCell.Offset(0, 1).Value = Abs(ActiveCell.Value - Fix(ActiveCell.Value))  
End Sub
```

```
Sub Ułamkowa_z()  
    Dim l As Double  
    Dim c As Integer  
    Dim u As Double  
  
    l = ActiveCell.Value  
    c = Fix(l)  
    u = Abs(l - c)  
    ActiveCell.Offset(0, 1).Value = u  
End Sub
```

---



### 4.

```
Sub DodajGodzinę()  
    ActiveCell.Value = DateAdd("h", 1, ActiveCell.Value)  
End Sub
```

```
Sub DodajGodzinę_z()  
    Dim dt1 As Date, dt2 As Date  
  
    dt1 = ActiveCell.Value  
    dt2 = DateAdd("h", 1, dt1)  
    ActiveCell.Value = dt2  
End Sub
```

---

### 5.

```
Sub DodajGodziny1()  
    ActiveCell.Value = DateAdd("h", ActiveCell.Offset(0, 1).Value, _  
                                ActiveCell.Value)  
End Sub
```

```
Sub DodajGodziny1_z()  
    Dim dt1 As Date, dt2 As Date, ile As Integer  
  
    dt1 = ActiveCell.Value  
    ile = ActiveCell.Offset(0, 1).Value  
    dt2 = DateAdd("h", ile, dt1)  
    ActiveCell.Value = dt2  
End Sub
```

---

### 6.

```
Sub DodajGodziny2()  
    ActiveCell.Value = DateAdd("h", Range("A1").Value, _  
                                ActiveCell.Value)  
End Sub
```

```
Sub DodajGodziny2_z()  
    Dim dt1 As Date, dt2 As Date, ile As Integer  
  
    dt1 = ActiveCell.Value  
    ile = Range("A1").Value  
    dt2 = DateAdd("h", ile, dt1)  
    ActiveCell.Value = dt2  
End Sub
```

---

### 7.

```
Sub Sumuj()  
    MsgBox "Suma wartości we wskazanym zakresie wynosi " &  
    Application.WorksheetFunction.Sum(Selection)  
End Sub
```

---



```
Sub Sumuj_z()  
    Dim s As Double  
  
    s = Application.WorksheetFunction.Sum(Selection)  
    MsgBox "Suma wartości we wskazanym zakresie wynosi " & s  
End Sub
```

---

```
8.  
Sub Sumuj2()  
    MsgBox "Suma kwadratów wartości we wskazanym zakresie wynosi " _  
        & Application.WorksheetFunction.SumSq(Selection)  
End Sub
```

```
Sub Sumuj2_z()  
    Dim s As Double  
  
    s = Application.WorksheetFunction.SumSq(Selection)  
  
    MsgBox "Suma kwadratów wartości we wskazanym zakresie wynosi " & s  
End Sub
```

---

```
9.  
Sub Rozstępi()  
    MsgBox "Rozstępi wartości we wskazanym zakresie wynosi " _  
        & Application.WorksheetFunction.Max(Selection) _  
        & Application.WorksheetFunction.Min(Selection)  
End Sub
```

```
Sub Rozstępi_z()  
    Dim w1 As Double, w2 As Double, r As Double  
  
    w1 = Application.WorksheetFunction.Max(Selection)  
    w2 = Application.WorksheetFunction.Min(Selection)  
    r = w1 - w2  
    MsgBox "Rozstępi wartości we wskazanym zakresie wynosi " & r  
End Sub
```