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## Examples of use functions iBandsfunc and iMACDfunc for MQL4.

### iBandsfunc:

#### Example 1.

Symbol - current symbol (NULL),  
Timeframe - current chart timeframe (0),  
Period to calculate Bollinger - 20,  
Deviation - 1.7,  
The indicator shift relative to the char - 0,  
Applied price - close (PRICE\_CLOSE),  
Indicator line index - upper line (MODE\_UPPER),  
MA method - simple moving average (MODE\_SMA),  
Index of the value taken from the indicator buffer - 1.

```
double result=iBandsfunc(NULL, 0, 20, 1.7, 0, PRICE_CLOSE, MODE_UPPER, MODE_SMA, 1);
```

#### Example 2.

Symbol - GBPUSD,  
Timeframe - H4 (PERIOD\_H4),  
Period to calculate Bollinger - 14,  
Deviation - 2.15,  
The indicator shift relative to the char - 2,  
Applied price - high (PRICE\_HIGH),  
Indicator line index - lower line (MODE\_LOWER),  
MA method - exponential moving average (MODE\_EMA),  
Index of the value taken from the indicator buffer - 5.

```
double result=iBandsfunc("GBPUSD", PERIOD_H4, 14, 2.15, 2, PRICE_HIGH, MODE_LOWER, MODE_EMA, 5);
```

### iMACDfunc:

#### Example 1.

$MACD = EMA(CLOSE, 12) - EMA(CLOSE, 26)$

$SIGNAL = SMA(MACD, 9)$

Symbol - current symbol (NULL),  
Timeframe - current chart timeframe (0),  
Number of periods for fast moving average calculation - 12,  
Number of periods for slow moving average calculation - 26,  
MA method for MACD - exponential moving average (MODE\_EMA),  
Number of periods for signal moving average calculation - 9,  
MA method for SIGNAL - simple moving average (MODE\_SMA),  
Applied price - close (PRICE\_CLOSE),  
Indicator line index - base indicator line (MODE\_MAIN),  
Index of the value taken from the indicator buffer - 0.

```
double iMACDfunc(NULL, 0, 12, 26, MODE_EMA, 9, MODE_SMA, PRICE_CLOSE, MODE_MAIN, 0)
```

Example 2.

MACD = SMMA(OPEN, 10) - SMMA (OPEN, 30)

SIGNAL = LWMA(MACD, 15)

Symbol - USDJPY,

Timeframe - M30 (PERIOD\_M30),

Number of periods for fast moving average calculation - 10,

Number of periods for slow moving average calculation - 30,

MA method for MACD - smoothed moving average (MODE\_SMMA),

Number of periods for signal moving average calculation - 15,

MA method for SIGNAL - linear weighted moving average (MODE\_LWMA),

Applied price - open (PRICE\_OPEN),

Indicator line index - signal line. (MODE\_SIGNAL),

Index of the value taken from the indicator buffer - 2.

```
double iMACDfunc("USDJPY", PERIOD_M30, 10, 30, MODE_SMMA, 15, MODE_LWMA, PRICE_OPEN, MODE_SIGNAL, 2)
```