

**Лабораторная работа №8 по дисциплине  
“Разработка интернет приложений”**

**Javascript**

ИСПОЛНИТЕЛЬ:

студент группы РТ5-51

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## Index.js

```

1  $(function() {
2      var $from = $('#from');
3      var $to = $('#to');
4      var $func = $('#func');
5      var $button = $('#btn');
6      var $output = $('#output');
7      var $stop = $('#stop');
8
9      $button.click(function () {
10         var begin = parseFloat($from.val());
11         var end = parseFloat($to.val());
12         const func = $func.val();
13         var point = [];
14         var dx = 0.2;
15
16         var dynamic = setInterval(function () {
17             for (var x = begin; x <= end; x+=0.1) {
18                 if (x <= end){
19                     var y = eval(func);
20                     point.push([x, y]);
21                 }
22             }
23
24             const points = [{data: point, label: func}];
25
26
27             var options = {
28                 colors: ["#FF0000"],
29                 grid: {
30                     borderWidth: 2,
31                     borderColor: "#000000" }
32             };
33
34             $.plot($output, points, options);
35             if(document.getElementById("oscil").checked){
36                 $stop.show();
37                 begin += dx;
38                 end += dx
39             }
40             else{
41                 clearInterval(dynamic);
42                 $stop.hide();
43                 point = [];
44             }, 100);
45
46             $stop.click(function () {
47                 clearInterval(dynamic);
48
49             })
50         });
51     });

```

## Index.html

```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4     <meta charset="UTF-8">
5     <link rel="stylesheet" type="text/css" href="style.css">
6     <script src="https://code.jquery.com/jquery-2.2.4.min.js"></script>
7     <script src="https://cdnjs.cloudflare.com/ajax/libs/flot/0.8.3/jquery.flot.js"></script>
8     <script type="text/javascript" src="index.js"></script>
9     <title>Построение графиков</title>
10 </head>
11 <body>
12     <h1>Построение графиков</h1>
13     <div class="form">
14         <label>
15             From: <input type="text" class="from" value="-10">
16         </label>
17         <label>
18             To: <input type="text" class="to" value="10">
19         </label>
20         <label>
21             Function: <input type="text" class="func" value="Math.sin(x)">
22         </label>
23         Oscillograph: <input type="checkbox" id="oscil">
24         <button type="button" class="btn">Построить график</button>
25     </div>
26     <div class="output">
27     </div>
28     <button type="button" class="stop">Стоп</button>
29 </body>
30 </html>
```

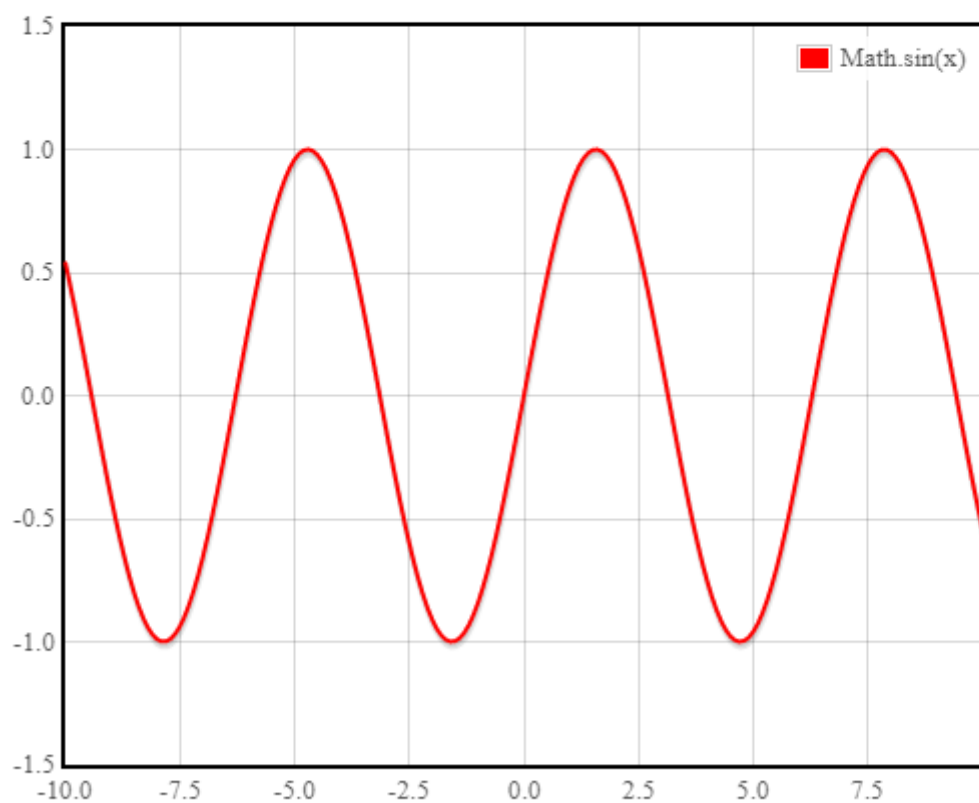
# Построение графиков

From:

To:

Function:

Oscillograph: ☐



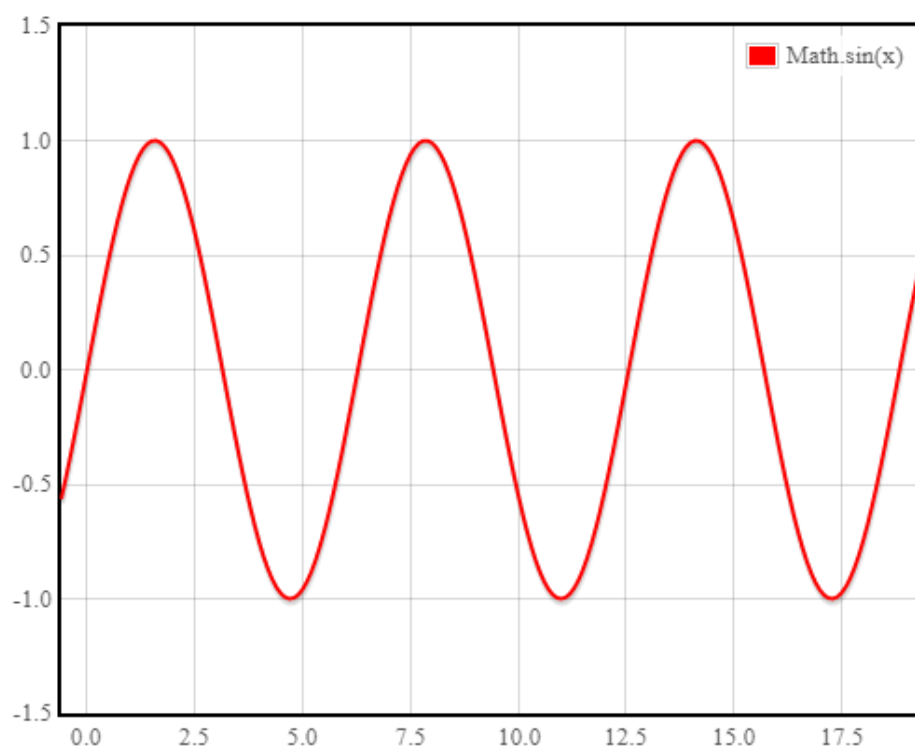
# Построение графиков

From: -10

To: 10

Function:  $\text{Math.sin}(x)$

Oscilloscope: ☒ Построить график



Стоп