```
octave:1> 7+3
ans = 10
octave:2> 89-9
ans = 80
octave:3> 4*7
ans = 28
octave:4> 88/22
ans = 4
octave:5> 3/7
ans = 0.4286
octave:6> 5^5
ans = 3125
```

```
octave:7> 9^2+7^3*(3+8-9/3)*2^3

ans = 22033

octave:8> 8^2-7*2*(8+6)/2

ans = -34

octave:9> 2+3-5*6/(7-5)^5

ans = 4.0625

octave:10> 3*9/3-7^4*(7-3)

ans = -9595
```

```
octave:11> 7-66+4*cos(0)
ans = -55
octave:12> cos(0)*33/3-67+8
ans = -48
octave:13> cos(0) + cos(0) + cos(0)
ans = 3
octave:14> 5600^cos(0)
ans = 5600
octave:15> 55 + 7/cos(0)
ans = 62
```

```
octave:16> 78/sin(0)
ans = Inf
octave:17> 3/sin(0)
ans = Inf
octave:18> 5000000/sin(0)
ans = Inf
octave:19> 6.789789789/sin(0)
ans = Inf
```

```
octave: 20 > w = [5,6,7;8,10,62;23,4,7]
w =
   5
       6
           7
       10 62
4 7
   8
   23
octave:21> z = [9,8;4,5]
z =
  9
      8
  4
      5
octave:22> t = [7,6,5; 4,3,2]
t =
      6 5
  7
      3
         2
  4
octave:23>
```

```
octave:23> a = [9,3,4; 5,8,7]

a =

9  3  4

5  8  7

octave:24> b = [7,4,3; 8,7,2]

b =

7  4  3

8  7  2

octave:25> a+b

ans =

16  7  7

13  15  9
```

```
octave:26> a = [2,3,4; 5,6,7]
a =

2 3 4
5 6 7

octave:27> b = [7,5,3; 8,1,2]
b =

7 5 3
8 1 2

octave:28> a-b
ans =

-5 -2 1
-3 5 5
```

```
octave:29> 3i + 7 + 4i + 8
ans = 15 + 7i
octave:30> 3j +9i + 3j + 7 + 8i
ans = 7 + 23i
```

```
octave:31> 3i * 5i
ans = -15
octave:32> 7j * 6i
ans = -42
octave:33> 4i * 8j
ans = -32
octave:34> 3 * 7i
ans = 0 + 21i
octave:35> 71j * 10
ans = 0 + 710i
octave:36> 3 * 9
ans = 27
```

```
octave:37> log10(10)
ans = 1
octave:38> log10(2)
ans = 0.3010
octave:39> log10(-3)
ans = 0.4771 + 1.3644i
octave:40> log10(2) * log10(2)
ans = 0.090619
```

```
octave:41> -7/i
ans = 0 + 7i
octave:42> -8/4i
ans = 0 + 2i
octave:43> -6j/3i
ans = -2
octave:44> -8/64j
ans = 0 + 0.1250i
```

log(2) = ln(2)

```
octave:53> log(2)
ans = 0.6931
octave:54> log10(2)
ans = 0.3010
```

15.

```
octave:56> (3^2 + 7*5 - 9/3) / (4^2 - 3*(8 - 7/2) + 6)
ans = 4.8235
octave:57> (3^2 + (7*5 - 9/3)) / ((4^2 - 3)*(8 - 7/2) + 6)
ans = 0.6357
```

```
octave:58>
octave:58> ((7^3 - 5^2 * (3 + 2^4)) / (4 + 3^3)) ^ (1/3) + log10(100) * sin(pi/6)
ans = 1.8104 + 1.4037i
octave:59>
octave:59>
octave:59>
```

```
octave:61> A = [2, 4, 6; 8, 10, 12; 14, 16, 18];
octave:62> B = [1, 3, 5; 7, 9, 11; 13, 15, 17];
octave:63> A+B
ans =
       7 11
   3
  15
      19
           23
  27
      31
           35
octave:64> A-B
ans =
  1 1 1
  1 1
         1
  1
      1
         1
octave:65> A*B
ans =
        132
              156
  108
       294
  234
             354
  360 456
             552
```

```
octave:66> log 10(-5+3i)\log_{10}(-5 + 3i)log10 (-5+3i)
error: parse error:

    syntax error

>>> log_10(-5+3i)\log_{10}(-5 + 3i)log10 (-5+3i)
    octave:66> e(4+5i)e^{{(4 + 5i)}e(4+5i)}
error: parse error:

    syntax error

>>> e(4+5i)e^{{(4 + 5i)}e(4+5i)}
    octave:66> sin (5+2i)\sin(5 + 2i)sin(5+2i)
error: parse error:

    syntax error

>>> sin_(5+2i)\sin(5 + 2i)sin(5+2i)
    octave:66>
```

```
octave:66> A = [2, 4, 6; 8, 10, 12; 14, 16, 18];
octave:67> B = [1, 3, 5; 7, 9, 11; 13, 15, 17];
octave:68>
octave:68> A+B
ans =
  3
       7 11
  15
      19
           23
  27
      31 35
octave:69> A-B
ans =
  1 1 1
  1 1 1
  1 1 1
octave:70> A*B
ans =
            156
  108
      132
  234
        294
            354
  360
        456
             552
```

```
octave:71> diff1 = log10(100) - log(100);
octave:72> diff1
diff1 = -2.6052
octave:73> diff2 = log10(2.71828) - log(2.71828);
octave:74> diff2
diff2 = -0.5657
```

```
octave:75> 15 + 25

ans = 40

octave:76> 350 - 125

ans = 225

octave:77> 18 * 12

ans = 216

octave:78> 55 / 8

ans = 6.8750

octave:79> 3^8

ans = 6561
```

```
octave:80> 12^2 - 8*(15 - 4) + 3^4

ans = 137

octave:81> 5^3 + (25/5) * (9 - 3^2)

ans = 125

octave:82> (7 + 4) * ((3^2 - 5) / 2) + 10

ans = 32
```

```
octave:83> cos(pi/4)
ans = 0.7071
octave:84> sin(pi/3) + tan(pi/6)
ans = 1.4434
octave:85> 2 * cos(pi/3) - 3 * sin(pi/6)
ans = -0.5000
octave:86>
```

```
octave:86> [1,2,3;4,5,6]
ans =
      2
           3
  4
       5
           6
octave:87> A = [3, 5; 7, 9];
octave:88> B = [1, 2; 4, 8];
octave:89> A+B
ans =
   4
   11
       17
octave:90> X = [9, 8; 6, 4];
octave: 91 > Y = [3, 2; 1, 0];
octave:92> x-Y
error: 'x' undefined near line 1, column 1
octave:93> X-Y
ans =
  6 6
octave:94> 5* [2, 3; 4, 6]
ans =
   10
        15
        30
   20
```

```
octave:95> [1, 2, 3] .* [4, 5, 6]
ans =
   4 10 18
octave:96> [12, 24, 36] ./ [3, 6, 9]
octave:98> (9 + 7i) - (3 + 2i)
ans = 6 + 5i
octave:99> (2 + 3i) * (4 - 5i)
ans = 23 + 2i
octave:100> log10(100)
ans = 2
octave:101> log(exp(1))
ans = 1
octave:102> log(20) * log10(10)
ans = 2.9957
octave:103> [10, 20, 30] + [5, 15, 25]
ans =
  15 35 55
octave:104> [50, 60, 70] - [10, 20, 30]
  40 40 40
octave:105> 4 * [1, 2, 3]
ans =
   4 8 12
octave:106> [2i, 3i, 4]*2
  0 + 4i 0 + 6i 8 + 0i
octave:107> [6i, 9i, 12]
   0 + 6i 0 + 9i 12 + 0i
octave:108> [6i, 9i, 12] * 3
   0 + 18i 0 + 27i 36 + 0i
octave:109> [1, 2, 3] + [2i, 3i, 4i]
```