

Arithmetic Operations

A mathematical expression containing $+$, $-$, $*$, $^$, $/$ and parenthesis will be provided. Read in the expression, then evaluate it. Display the result rounded to **3** decimal places.

Constraints

All numeric values are ≤ 999 .

Sample Input

Sample Input 1

```
5+50*3/20 + (19*2)/7
```

Sample Input 2

```
-105+50*3/20 + (19^2)/7
```

Sample Input 3

```
(-105.5*7+50*3)/20 + (19^2)/7
```

Sample Output

Sample Output 1

```
17.929
```

Sample Output 2

```
-45.929
```

Sample Output 3

```
22.146
```