(%i1)
```
wg : 600 * 2* %pi;
c : 10^(-8);
k : 2.5;
ex1 : wg*(R1*c + R2*c + (1-k)*R1*c) -1;
ex2 : wg^2*R1*R2*c^2 - 1;
```

(%o1) $1200\,\pi$

(%o2) $\dfrac{1}{100000000}$

(%o3) 2.5

(%o4) $1200\,\pi\left(\dfrac{R2}{100000000} - 5.000000000000002\,10^{-9}\,R1\right) - 1$

(%o5) $\dfrac{9\,\pi^2\,R1\,R2}{62500000000} - 1$

(%i6)
```
soln : float(solve([ex1, ex2], [R1, R2]));
plussol : second(soln);
```

$rat : replaced - 5.000000000000002e - 9by - 1/200000000 = -5.e - 9$

(%o6) $[[R1 = -72469.89846713189, R2 = -9709.125384916724], [R1 = 19418.25076983345, R2 = 36234.94923356597]]$

(%o7) $[R1 = 19418.25076983345, R2 = 36234.94923356597]$

(%i8)
```
float(1/wg/c);
```

(%o8) 26525.82384864922