
verk 2

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2.1

u = frá peru e = frá spegil

```
rulerror = 1
u1 = 10.3e1 %mm
u2 = 8.35e1
u3 = 7.5e1
e1 = 10.2e1
e2 = 8.4e1
e3 = 7.4e1

syms f1 f2 f3;
f1 = solve(1/u1-1/e1 == 1/f1, f1)
f2 = solve(1/u2-1/e2 == 1/f2, f2)
f3 = solve(1/u3-1/e3 == 1/f3, f3)
f1err = f1*(rulerror/u1 + rulerror*3/e1)
f2err = f2*(rulerror/u2 + rulerror*3/e2)
f3err = f3*(rulerror/u3 + rulerror*3/e3)

rulerror =
    1
u1 =
    103
u2 =
    8.3500e+01
u3 =
    75
e1 =
    102
e2 =
    84
e3 =
    74
f1 =
   -10506
f2 =
    14028
f3 =
   -5550
f1err =
   -411
f2err =
```

```
669  
f3err =  
-299
```

f á að nálgast óendanlegt

2.2

```
f = 3.3e1 %mm  
R = 2*f
```

```
f =  
    33  
R =  
    66
```

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