```
(%i1)  eq1: r1 + r2 = rn;
```

(%o1) $r2 + r1 = rn$

```
(%i2)  eq2: r1 = r2 * rl / (r2 + rl);
```

(%o2) $r1 = \frac{r2\,rl}{rl + r2}$

```
(%i3)  solve([eq1, eq2], [r1, r2]);
```

(%o3) $[[r1 = -\frac{\sqrt{rn^2 + 4\,rl^2} - rn - 2\,rl}{2}, r2 = -\frac{rl\,\sqrt{rn^2 + 4\,rl^2} - rl\,rn - 2\,rl^2}{\sqrt{rn^2 + 4\,rl^2} - rn}], [r1 = \frac{\sqrt{rn^2 + 4\,rl^2} + rn + 2\,rl}{2}, r2 = -\frac{rl\,\sqrt{rn^2 + 4\,rl^2} + rl\,rn + 2\,rl^2}{\sqrt{rn^2 + 4\,rl^2} + rn}]]$

```
(%i4)  %o3, rn=100, rl=14.4;
```

(%o4) $[[r1 = 12.3677023378748, r2 = 87.63229766212527], [r1 = 116.4322976621252, r2 = -16.43229766212521]]$

```
(%i5)  %o4[1];
```

(%o5) $[r1 = 12.3677023378748, r2 = 87.63229766212527]$