```
In [1]: p1, p2, f1, f2 = symbols('p1:3,f1:3', real=True, positive=True)
r11, r12, r21, r22 = symbols('r_11,r_12,r_21,r_22', real=True, positive
```

Out[2]:
$$\left(\frac{f_1 - p_2 r_{21}}{-r_{12} + 1}, \frac{f_2 - p_1 r_{12}}{-r_{21} + 1}\right)$$

Out[3]:
$$-p_1 + \frac{f_1 - \frac{r_{21}(f_2 - p_1 r_{12})}{-r_{21} + 1}}{-r_{12} + 1}$$

Out[4]:
$$\frac{f_1r_{21} - f_1 + f_2r_{21}}{r_{12} + r_{21} - 1}$$

Out[5]:
$$\frac{f_1 r_{21} - f_1 + r_{21} \left(-f_1 + 1\right)}{r_{12} + r_{21} - 1}$$

Out[6]:
$$\frac{-f_1 + r_{21}}{r_{12} + r_{21} - 1}$$