Start simply with the function $m(x)=-\frac{1}{x+121}+\frac{1}{x-7}=\frac{128}{x^2+114\,x-847}.$ After the second sage-silent block, we have that $f(x)=-\frac{3}{x+5}+\frac{2}{x-3}=-\frac{x-19}{x^2+2\,x-15}.$