$$x_{p,q}^{f,g,f} = x_{q,p}^{f,g,f}$$

$$\psi_f^{-1}(W(q) \cdot [W(p) \cdot [\psi_f(x^f) - \psi_f(\rho^{f\to g})] + \psi_g(\rho^{g\leftarrow f}) - \psi_g(\rho^{g\to f}) + \tfrac{1}{W(q)} \cdot \psi_g(\rho^{f\leftarrow g})]) =$$
$$\psi_f^{-1}(W(p) \cdot [W(q) \cdot [\psi_f(x^f) - \psi_f(\rho^{f\to g})] + \psi_g(\rho^{g\leftarrow f}) - \psi_g(\rho^{g\to f}) + \tfrac{1}{W(p)} \cdot \psi_g(\rho^{f\leftarrow g})])$$

$$\psi_f^{-1}(W(p) \cdot W(q) \cdot \psi_f(x^f) - W(p) \cdot W(q) \cdot \psi_f(\rho^{f\to g}) + W(q) \cdot \psi_g(\rho^{g\leftarrow f}) - W(q) \cdot \psi_g(\rho^{g\to f}) + \psi_g(\rho^{f\leftarrow g})) =$$
$$\psi_f^{-1}(W(p) \cdot W(q) \cdot \psi_f(x^f) - W(p) \cdot W(q) \cdot \psi_f(\rho^{f\to g}) + W(p) \cdot \psi_g(\rho^{g\leftarrow f}) - W(p) \cdot \psi_g(\rho^{g\to f}) + \psi_g(\rho^{f\leftarrow g}))$$

$$\psi_f^{-1}(W(p) \cdot W(q) \cdot \psi_f(x^f) - W(p) \cdot W(q) \cdot \psi_f(\rho^{f\to g}) + W(q) \cdot \psi_g(\rho^{g\leftarrow f}) - W(q) \cdot \psi_g(\rho^{g\to f}) + \psi_g(\rho^{f\leftarrow g})) =$$
$$\psi_f^{-1}(W(p) \cdot W(q) \cdot \psi_f(x^f) - W(p) \cdot W(q) \cdot \psi_f(\rho^{f\to g}) + W(p) \cdot \psi_g(\rho^{g\leftarrow f}) - W(p) \cdot \psi_g(\rho^{g\to f}) + \psi_g(\rho^{f\leftarrow g}))$$

$$x_{p,q}^{f,g,f} = \psi_f^{-1}(W(q) \cdot [\psi_g(x_p^{f,g}) - \psi_g(\rho^{g\to f})] + \psi_g(\rho^{f\leftarrow g}))$$
$$x_{p,q}^{f,g,f} = \psi_f^{-1}(W(q) \cdot [\psi_g(\psi_g^{-1}(W(p) \cdot [\psi_f(x^f) - \psi_f(\rho^{f\to g})] + \psi_g(\rho^{g\leftarrow f}))) - \psi_g(\rho^{g\to f})] + \psi_g(\rho^{f\leftarrow g}))$$
$$x_{p,q}^{f,g,f} = \psi_f^{-1}(W(q) \cdot [W(p) \cdot [\psi_f(x^f) - \psi_f(\rho^{f\to g})] + \psi_g(\rho^{g\leftarrow f}) - \psi_g(\rho^{g\to f})] + \psi_g(\rho^{f\leftarrow g}))$$
$$x_{p,q}^{f,g,f} = \psi_f^{-1}(W(q) \cdot W(p) \cdot [\psi_f(x^f) - \psi_f(\rho^{f\to g})] + \psi_g(\rho^{g\leftarrow f}) - \psi_g(\rho^{g\to f}) + \frac{1}{W(q)} \cdot \psi_g(\rho^{f\leftarrow g}))$$

$$\psi_g(x_p^{f,g}) - \psi_g(\rho^{g\leftarrow f}) = W(p) \cdot [\psi_f(x^f) - \psi_f(\rho^{f\to g})]$$
$$x_p^{f,g} = \psi_g^{-1}(W(p) \cdot [\psi_f(x^f) - \psi_f(\rho^{f\to g})] + \psi_g(\rho^{g\leftarrow f}))$$

reference: standard

reference: target

production factor: p

production factor: q