

$$\begin{aligned}
 x^T - yx + 1 &= (x-r)^T = x^T + y - yx \\
 x^T + 1 &= (x-r)^T = 1 \quad x-r = 1 \\
 (x+r)^T &= x^T + 1 + y + 1 \\
 (x+r)^T &= 2 \quad x \quad x+r = 1 \pm r \\
 -1
 \end{aligned}$$

$$\begin{aligned}
 x^T - yx + 1 &= 0 \quad (x-r)(x-r) \\
 x^T - yx + 1 &= 0 \quad (x-r)(x+r) \\
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 \end{aligned}$$

$$\begin{aligned}
 x^T - yx + 1 &= 0 \quad \frac{x^T + 1}{x} = \frac{y}{x} \\
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