3. We follow the procedure in the proof of 1.14.

a) $y = \frac{xy}{x} = \frac{xz}{x} = z$.

b) In a) choose $z = 1$.

c) In a) choose $z = 1/x$.

d) Since $1/x \cdot x = 1$, then according to c) with $1/x$ in place of x and x instead of y gives us $x = 1/(1/x)$.

□