Let $a$, $b$, and $c$ be integer variables. Simplify $a:= a+b$. $b:= a-b$ $||$ $a:= a-b$

After trying the question, scroll down to the solution.
§ In the concurrent composition, $b$ is a variable of the left process, and $a$ is a variable of the right process. Let's give $c$ to the left process.

\begin{align*}
a &:= a + b. \quad (b := a - b \parallel a := a - b) \quad \text{expand last two assignments} \\
\equiv & \quad a := a + b. \quad (b' = a - b \land c' = c \parallel a' = a - b) \quad \text{replace } \parallel \\
\equiv & \quad a := a + b. \quad (b' = a - b \land c' = c \land a' = a - b) \quad \text{substitution law} \\
\equiv & \quad b' = a + b - b \land c' = c \land a' = a + b - b \quad \text{simplify} \\
\equiv & \quad b' = a \land c' = c \land a' = a \quad \text{assignment} \\
\equiv & \quad b := a
\end{align*}