$$\left\{\begin{array}{c}3x\_{1}-2x\_{2}-x\_{4}=1\\2x\_{2}+2x\_{3}+x\_{4}=1\\x\_{1}-2x\_{2}-3x\_{3}-2x\_{4}=1\\x\_{2}+2x\_{3}+x\_{4}=1\end{array}\right.$$



$$∆\_{1}=$$



$$∆\_{2}=$$



$$∆\_{3}=$$



$$∆\_{4}=$$



$$\left\{\begin{array}{c}x\_{1}=\frac{∆\_{1}}{∆}\\x\_{2}=\frac{∆\_{2}}{∆}\\x\_{3}=\frac{∆\_{3}}{∆}\\x\_{4}=\frac{∆\_{4}}{∆}\end{array}\right.⟹\left\{\begin{array}{c}x\_{1}=\frac{1}{1}\\x\_{2}=\frac{0}{1}\\x\_{3}=\frac{28}{1}\\x\_{4}=-\frac{52}{1}\end{array}⟹\left\{\begin{array}{c}x\_{1}=1\\x\_{2}=0\\x\_{3}=28\\x\_{4}=-52\end{array}\right.\right.$$