18 $4x-2y+5z=72$ — R_1
$5x-4y-4z=2$ — R_2
$x-y+5z=46$ — R_3

◯ stands for something.

Need to get it to the form $x - \square y + \square z = \square$
$y + \square z = \square$
$z = \square$

① $-5R_3+R_2 \longrightarrow R_3$
$-5R_3 \Rightarrow -5x+5y-25z=-230$
$-5R_3+R_2 \Rightarrow y-29z=-228$
Equations now become.

$4x-2y+5z=72$ — R_1
$5x-4y-4z=2$ — R_2
$y-29z=-228$ — R_3

② $-4R_2+5R_1 \longrightarrow R_2$
$-4R_2 \Rightarrow -20x+16y+16z=-8$
$5R_1 \Rightarrow 20x-10y+25z=360$
$-4R_2+5R_1 \Rightarrow 4y+41z=352$
Equations now become

$4x-2y+5z=72$ — R_1
$4y+41z=352$ — R_2
$y-29z=-228$ — R_3

③ $-4R_3+R_2 \longrightarrow R_3$
$-4R_3 \Rightarrow -4y+116z=912$
$-4R_3+R_2 \Rightarrow 157z=1264$
Equations now become

$4x-2y+5z=72$ — R_1
$4y+41z=352$ — R_2
$157z=1264$ — R_3

④ $\frac{1}{4}R_1 \longrightarrow R_1$
$\frac{1}{4}R_2 \longrightarrow R_2$
$\frac{1}{157}R_3 \longrightarrow R_3$

$x-\frac{1}{2}y+\frac{5}{4}z=18$
$y+\frac{41}{4}z=88$
$z=8.05$
$y=88-\frac{41}{4}(8.05)=5.5$
$x=18+\frac{1}{2}(5.5)-\frac{5}{4}(8.05)=10.6875$

$x=10.6875$
$y=5.5$
$z=8.05$