VD 7.6.2

Solve following system of equations using inverse matrix

$\begin{cases} x+y+2z=3 \\ 3x+4z=4 \\ -2x+3y+6z=1 \end{cases}$	$\left(\frac{8}{5},\frac{9}{5},-\frac{1}{5}\right)$
$\begin{cases} x+2z=4 \\ x-2y+4z=5 \\ -2x+3y=2 \end{cases}$	$\left(1,1,\frac{3}{2}\right)$
$\begin{cases} x+2z=3 \\ x-y+2z=3 \\ -x+3y+z=5 \end{cases}$	$\left(-\frac{7}{3},0,\frac{8}{3}\right)$
$\begin{cases} x+2z=7 \\ 4x+3y+2z=1 \\ 3y+z=5 \end{cases}$	$\left(-\frac{15}{7},\frac{1}{7},\frac{32}{7}\right)$
$\begin{cases} y+z=-4 \\ -x+2z=3 \\ x-2y=3 \end{cases}$	$\left(-4,-\frac{7}{2},-\frac{1}{2}\right)$
$\begin{cases} x-3z=1 \\ x+y+2z=2 \\ 3x-2y=-1 \end{cases}$	$\left(\frac{13}{19},\frac{29}{19},-\frac{2}{19}\right)$
$\begin{cases} -x+z=2 \\ 2x+y+z=1 \\ 3x-2y-z=4 \end{cases}$	$\left(\frac{1}{2},-\frac{5}{2},\frac{5}{2}\right)$