VD 7.3.1

Solve the following system of equations

1. $\begin{cases} 3x+3y+5z=1 \\ 3x+5y+4z=0 \\ 5x+9y+17z=0 \end{cases}$	$(\frac{49}{64},-\frac{31}{64},\frac{1}{32})$
2. $\begin{cases} x+y+z=2 \\ -x+3y+2z=8 \\ 4x+y=4 \end{cases}$	$(0,4,-2)$
3. $\begin{cases} 4x+y-z=0 \\ -8x-6y+z=-\frac{7}{4} \\ 3x-y=-\frac{9}{4} \end{cases}$	$\left(-\frac{1}{2},\frac{3}{4},-\frac{5}{4}\right)$
4. $\begin{cases} 2x+4y+z=-4 \\ 2x-4y+6z=13 \\ 4x-2y+z=6 \end{cases}$	$\left(\frac{1}{2},-\frac{3}{2},1\right)$
5. $\begin{cases} x+4z=1 \\ x+y+10z=10 \\ 2x-y+2z=-5 \end{cases}$	No solution
6. $\begin{cases} 3x-2y-6z=-1 \\ -3x+2y+6z=1 \\ 8x+3y+2z=3 \end{cases}$	no solution
7. $\begin{cases} 3x-3y-6z=6 \\ x+2y-z=5 \\ 5x-8y+13z=7 \end{cases}$	(3,1,0)