

YMR0010 XIV harjutustund

1. Lahendage

$$\begin{cases} y' = z + 1 \\ z' = y + 1 \end{cases}$$

2. Lahendage

$$\begin{cases} y'' = 4y - z' - 12 \\ z'' = z + 10y' - 7 \end{cases}$$

3. Lahendage

$$\begin{cases} y' = x - y \\ z' = z \end{cases}$$

4. Lahendage

$$\begin{cases} y' = 2x(y^2 + z^2) \\ z' = 4xyz \end{cases}$$

5. Lahendage

$$\begin{cases} \frac{dx}{dt} = \sin x \cos y \\ \frac{dy}{dt} = \cos x \sin y \end{cases}$$