Problem 1. Hej gubse du er en $A: \mathbb{C} \to \mathbb{C}$. \overline{a}^2

Vi kan ogsaa lave multiline!

$$\alpha + \beta$$
 (1)

$$= grissemus - \beta^2$$
 (2)

$$= 100! \tag{3}$$

Problem 2. Hesten er.

$$V := \{ p \in \mathbb{Q}[x] \mid p \text{ has degree at most 3} \}$$
 (4)

Problem 3. Du er en grissemus af vektoren

$$A \begin{pmatrix} \alpha \\ \beta \\ \gamma \end{pmatrix} = \begin{pmatrix} i\beta + 3\gamma \\ -i\alpha + 2\beta \\ 3\alpha - 2\gamma \end{pmatrix} \tag{5}$$

Problem 4. Vi kan ogsaa lave en stooor matrice!

$$mus = \begin{bmatrix} 0 & 1 & 0 & \cdots & \cdots & 0 \\ \vdots & 0 & 2 & 0 & \cdots & \vdots \\ \vdots & \vdots & \vdots & \ddots & \ddots & \vdots \end{bmatrix}$$
 (6)

Problem 5. mus

$$mus = \begin{cases} gris^2 & \text{if mus} \equiv gubse \\ ikke gris & \text{otherwise} \end{cases}$$
 (7)