

	Navn:		Skole:	
	Klasse: 20		Dato: 29. december 2022	Fag: Matematik A

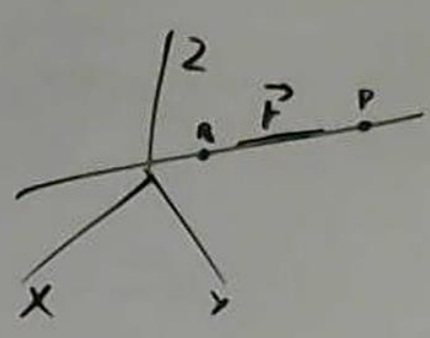
### Opgave 023

023

$$P_0 = \begin{pmatrix} x_0 \\ y_0 \\ z_0 \end{pmatrix}$$

$$\vec{r} = \begin{pmatrix} r_x \\ r_y \\ r_z \end{pmatrix}$$

$$P = \begin{pmatrix} x \\ y \\ z \end{pmatrix}$$

$$\vec{P_0 P} = P - P_0$$


$$\vec{P_0 P} = t \cdot \vec{r}$$

$$P - P_0 = t \cdot \vec{r} \quad | + P_0$$

$$P = P_0 + t \cdot \vec{r}$$

$$\begin{pmatrix} x \\ y \\ z \end{pmatrix} = \begin{pmatrix} x_0 \\ y_0 \\ z_0 \end{pmatrix} + t \cdot \begin{pmatrix} r_x \\ r_y \\ r_z \end{pmatrix}$$