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### Opgave 473

$$\vec{a} = \begin{pmatrix} -4 \\ 3 \\ 2 \end{pmatrix}$$

$$\vec{b} = \begin{pmatrix} 1 \\ 5 \\ -6 \end{pmatrix}$$

$$\vec{a} + \vec{b} = \begin{pmatrix} -4 \\ 3 \\ 2 \end{pmatrix} + \begin{pmatrix} 1 \\ 5 \\ -6 \end{pmatrix}$$

$$\vec{a} + \vec{b} = \begin{pmatrix} (-4) + 1 \\ 3 + 5 \\ 2 + (-6) \end{pmatrix}$$

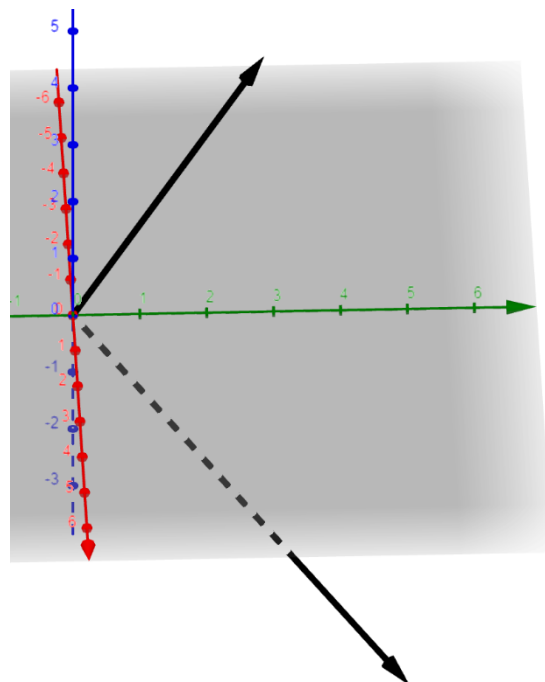
$$\vec{a} + \vec{b} = \begin{pmatrix} -3 \\ 8 \\ -4 \end{pmatrix}$$

$$|\vec{a} + \vec{b}| = \sqrt{x^2 + y^2 + z^2}$$

$$|\vec{a} + \vec{b}| = \sqrt{(-3)^2 + 8^2 + (-4)^2}$$

$$|\vec{a} + \vec{b}| = \sqrt{89}$$

$$|\vec{a} + \vec{b}| = 9.43$$



$$P_{\text{pilpunkt}} = (x + 1; y + 3; z + 2)$$

$$P_{\text{pilpunkt}} = ((-3) + 1; 8 + 3; (-4) + 2)$$

$$P_{\text{pilpunkt}} = (-2; 11; -2)$$