Rotaties oefenen

a)

$$\begin{aligned}
\vec{\nabla} \times (2z, 3y, -x) &= \begin{pmatrix} \partial_x \\ \partial_y \\ \partial_z \end{pmatrix} \times \begin{pmatrix} 2z \\ 3y \\ -x \end{pmatrix} \\
&= \begin{pmatrix} 0 \\ 3 \\ 0 \end{pmatrix}
\end{aligned}$$

b)

$$\begin{aligned}
\vec{\nabla} \times (z^3, 0, 10) &= \begin{pmatrix} \partial_x \\ \partial_y \\ \partial_z \end{pmatrix} \times \begin{pmatrix} z^3 \\ 0 \\ 10 \end{pmatrix} \\
&= \begin{pmatrix} 0 \\ 3z^2 \\ 0 \end{pmatrix}
\end{aligned}$$