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\documentclass{article}
\usepackage{unicode-math}
%\usepackage{mathrsfs}
%\usepackage{amsmath}
%\usepackage{euscript}
%\usepackage[utf8x]{inputenc}
%\usepackage{mathdesign}
%\setmathfont{DejaVuSansMono.ttf}
\setmathfont{xits-math.otf}
%\usepackage{unixode}
\begin{document}


A spin-1/2 particle has a magnetic moment 𝝁 and is placed in a uniform
magnetic field 𝑩, which is aligned with the z-axis, so 𝑩 = B𝒵 ẑ = B𝒵 ẑ. It
is known that the Hamiltonian operator for this sytem commutes with the
spin component operator in the z direction (z basis?) but not with spin
component operators in the x and y directions. The following argument
should prove that hypothesis.

The Hamiltonian Ĥ =
$\mathscr{z}$
$z$
\end{document}
```