```
\!\(\*
 RowBox[{
  RowBox[{"(*", " ",
    StyleBox[\(Ejercicio\ 42\),
     FontColor->RGBColor[1, 0, 0]], " ", "*)"}], "\n",
  \( (*\ Deducir\ los\ conmutadores\
     \(siguientes : \n\t\t\ \([lx, \ y]\)\ y\ [lz, \ z]\)\ *) \),
"\n",
  \( (*\ \([lx, y]\)\ *) \), "\n",
  \( (*\ lx = \(−\[ImaginaryI]h\) \((y*d\/dz − z*d\/dy)\)\ *) \),
"\n",
  \( (*\ \([\(−\[ImaginaryI]h\) \((y*d\/dz − z*d\/dy)\), y]\)\ *) \),
   "\n",
  RowBox[{
  \(ClearAll["\<Global`*\>"]\), "\n",
   \(A = \(−\[ImaginaryI]\)*h \((y*D[y\ f[x], z] − z*D[y\ f[x],
y])\)\)\),
    "\n", \(I\ h\ z\ f[x]\), "\n",
   \(B = \(−\[ImaginaryI]\)\ h\ y
     \((y*\ D[\ f[x], z] − z*\ D[f[x], y])\)\)\), "\n", "0", "\n",
   \((A − B)\), "\n", \(I\ h\ z\ f[x]\), "\n", \(\((A − B)\)/f[x]\),
"\n",
   \(I\ h\ z\), "\n", \( (*\ lz, z\ *) \), "\n",
   \( (*\ lz = \(−\[ImaginaryI]h\) \((x*d\/dy − y*d\/dx)\)\ *) \),
"\n",
   \( (*\ \([\(−\[ImaginaryI]h\) \((x*d\/dy − y*d\/dx)\), y]\)\ *)
\),
    "\n", \(ClearAll["\<Global`*\>"]\), "\n",
   \(A = \(−\[ImaginaryI]\)*h \((x*D[z\ f[x], y] − y*D[z\ f[x],
x])\)\)\),
    "\n",
   RowBox[{"I", " ", "h", " ", "y", " ", "z", " ",
    RowBox[{
     SuperscriptBox["f", "\[Prime]",
      MultilineFunction->None], "[", "x", "]"}]}], "\n",
   \(B = \(−\[ImaginaryI]\)\ h\ z
     \((x*\ D[\ f[x], y] − y*\ D[f[x], x])\)\)\), "\n",
   RowBox[{"I", " ", "h", " ", "y", " ", "z", " ",
    RowBox[{
     SuperscriptBox["f", "\[Prime]",
      MultilineFunction->None], "[", "x", "]"}]}], "\n", \((A −
B)\),
    "\n", "0", "\n", \(\((A − B)\)/f[x]\), "\n", "0"}], "\n",
  \( (*\ lz, z\ *) \), " "}]\)
```