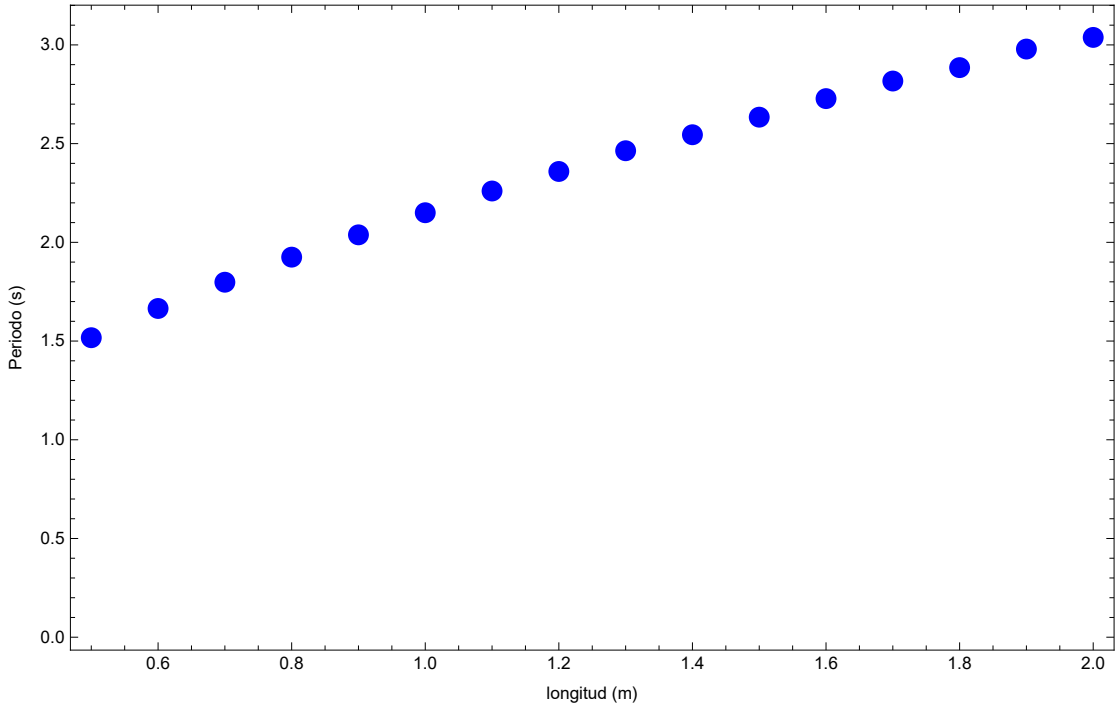
Datos del periodo del péndulo respecto a la longitud del hilo:

In[120]:=
```
data1 = {{0.5, 1.517}, {0.6, 1.665}, {0.7, 1.798}, {0.8, 1.925}, {0.9, 2.038},
  {1.0, 2.150}, {1.1, 2.260}, {1.2, 2.359}, {1.3, 2.464}, {1.4, 2.545}, {1.5, 2.634},
  {1.6, 2.728}, {1.7, 2.817}, {1.8, 2.885}, {1.9, 2.979}, {2.0, 3.038}}
```

Out[120]=
```
{{0.5, 1.517}, {0.6, 1.665}, {0.7, 1.798}, {0.8, 1.925}, {0.9, 2.038},
 {1., 2.15}, {1.1, 2.26}, {1.2, 2.359}, {1.3, 2.464}, {1.4, 2.545}, {1.5, 2.634},
 {1.6, 2.728}, {1.7, 2.817}, {1.8, 2.885}, {1.9, 2.979}, {2., 3.038}}
```

In[121]:=
```
original1 = ListPlot[data1, Frame -> True,
                     representación de li··· marco verdadero
              FrameLabel -> {"longitud (m)", "Periodo (s)"},
                            etiqueta de marco
              ImageSize → Large,
                          tamaño de i··· grande
              PlotStyle -> {PointSize[0.02], Blue}]
                           estilo de represen·· tamaño de punto azul
```

Out[121]=



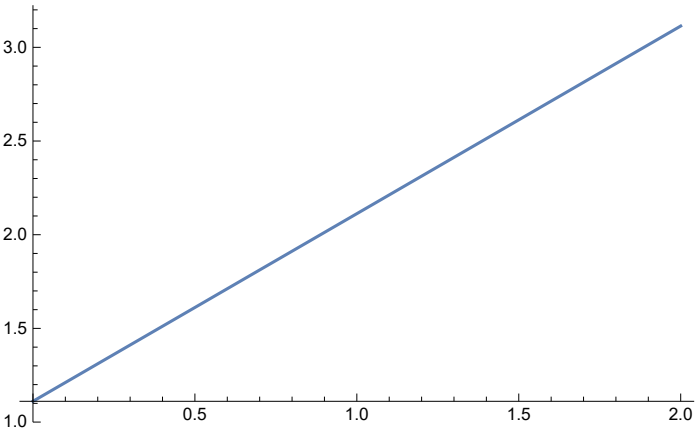
In[122]:=

In[123]:=
```
model = LinearModelFit[data1, x, x]
        ajusta a modelo lineal
```

Out[123]=
```
FittedModel[ 1.11093 + 1.00135 x ]
```

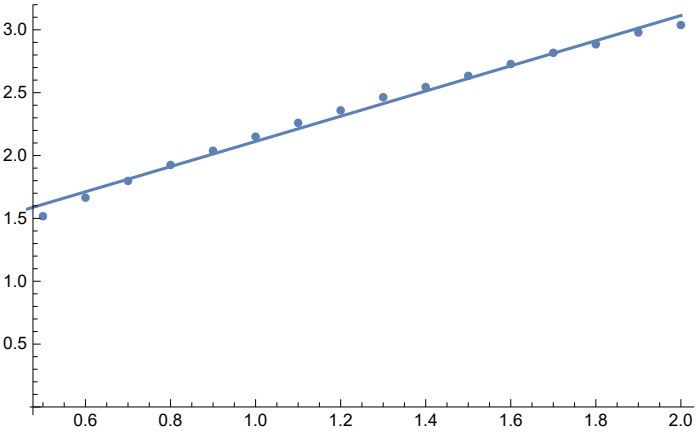
In[124]:=
```
Plot[model["BestFit"], {x, 0, 2}]
```
representación gráfica

Out[124]=



In[125]:=
```
Show[ListPlot[data1], Plot[model["BestFit"], {x, 0, 2}]]
```
mue·· representación de lista representación gráfica

Out[125]=



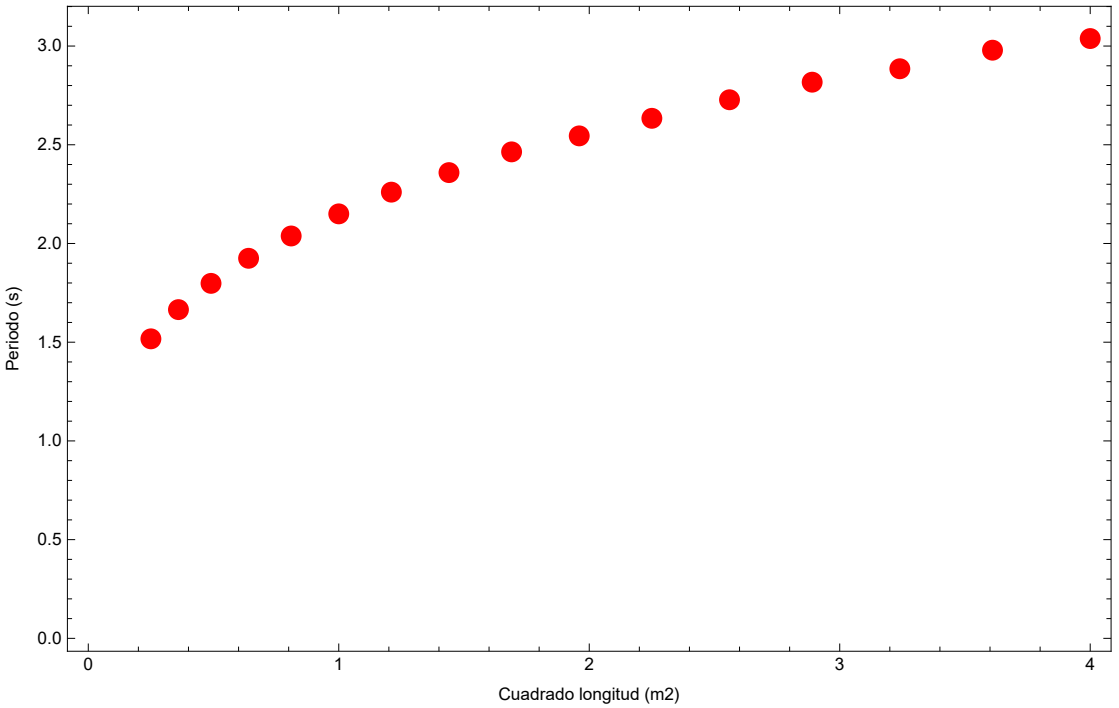
Datos del periodo del péndulo respecto al cuadrado de la longitud del hilo:

In[126]:=
```
data2 = { {0.25, 1.517}, {0.36, 1.665}, {0.49, 1.798},
   {0.64, 1.925}, {0.81, 2.038}, {1.0, 2.150}, {1.21, 2.260},
   {1.44, 2.359}, {1.69, 2.464}, {1.96, 2.545}, {2.25, 2.634},
   {2.56, 2.728}, {2.89, 2.817}, {3.24, 2.885}, {3.61, 2.979}, {4.0, 3.038}}
```

Out[126]=
```
{{0.25, 1.517}, {0.36, 1.665}, {0.49, 1.798}, {0.64, 1.925}, {0.81, 2.038}, {1., 2.15},
 {1.21, 2.26}, {1.44, 2.359}, {1.69, 2.464}, {1.96, 2.545}, {2.25, 2.634},
 {2.56, 2.728}, {2.89, 2.817}, {3.24, 2.885}, {3.61, 2.979}, {4., 3.038}}
```

In[127]:=
```
original2 = ListPlot[data2, Frame -> True,
                     FrameLabel -> {"Cuadrado longitud (m2)", "Periodo (s)"},
                     ImageSize → Large,
                     PlotStyle -> {PointSize[0.02], Red}]
```

Out[127]=

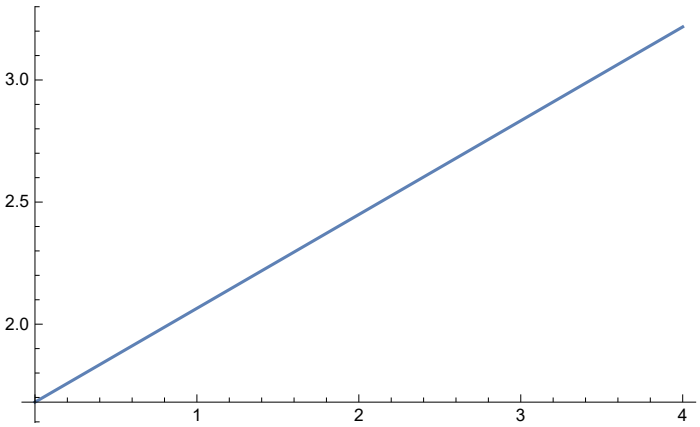


In[128]:=
```
model = LinearModelFit[data2, x, x]
```

Out[128]=
```
FittedModel[ 1.68075 + 0.384155 x ]
```

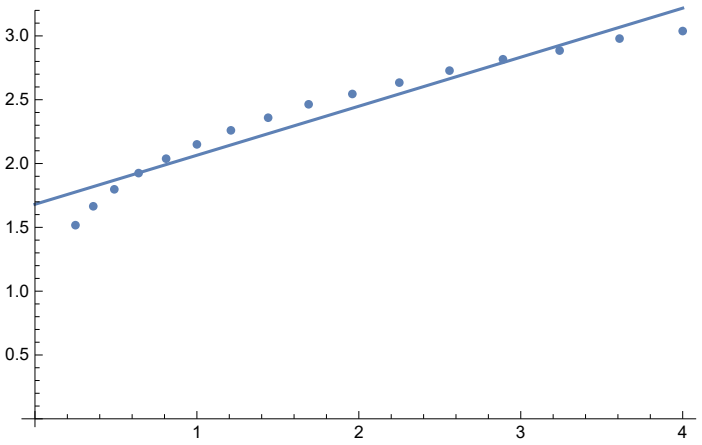
In[129]:=
```
Plot[model["BestFit"], {x, 0, 4}]
```

Out[129]=



In[130]:=
```
Show[ListPlot[data2], Plot[model["BestFit"], {x, 0, 4}]]
```
mue·· representación de lista representación gráfica

Out[130]=



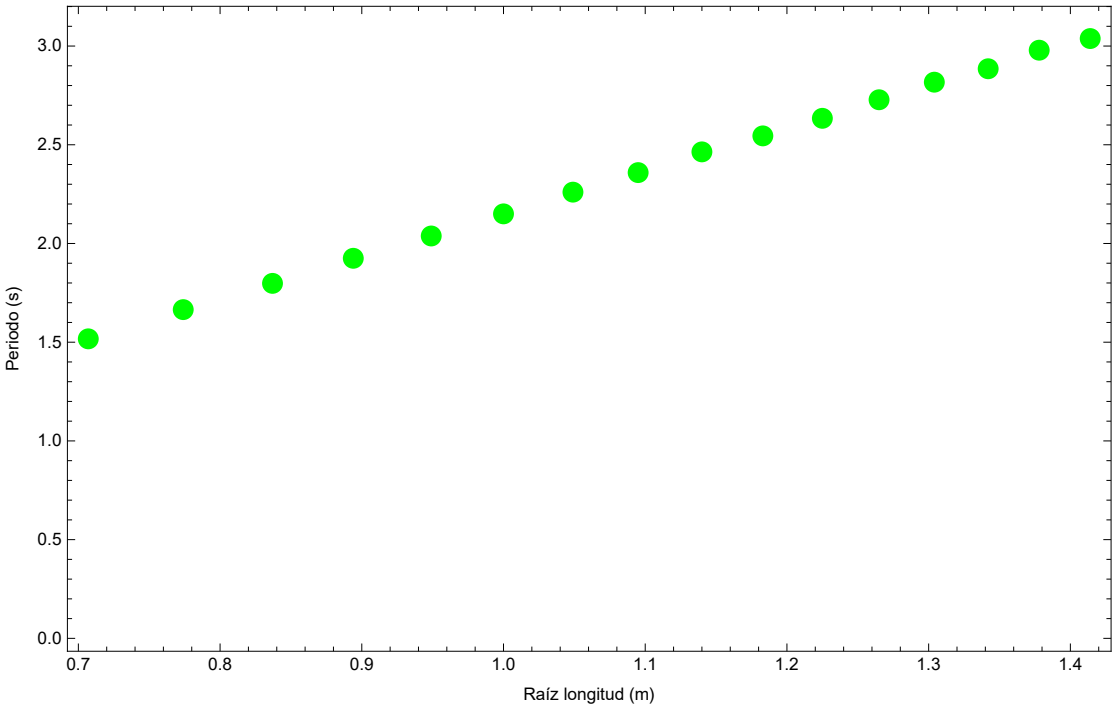
Datos del periodo del péndulo respecto a la raíz de la longitud del hilo:

In[131]:=
```
data3 = {{0.707, 1.517}, {0.774, 1.665}, {0.837, 1.798}, {0.894, 1.925},
  {0.949, 2.038}, {1.0, 2.150}, {1.049, 2.260}, {1.095, 2.359},
  {1.140, 2.464}, {1.183, 2.545}, {1.225, 2.634}, {1.265, 2.728},
  {1.304, 2.817}, {1.342, 2.885}, {1.378, 2.979}, {1.414, 3.038}}
```

Out[131]=
```
{{0.707, 1.517}, {0.774, 1.665}, {0.837, 1.798}, {0.894, 1.925}, {0.949, 2.038},
 {1., 2.15}, {1.049, 2.26}, {1.095, 2.359}, {1.14, 2.464}, {1.183, 2.545}, {1.225, 2.634},
 {1.265, 2.728}, {1.304, 2.817}, {1.342, 2.885}, {1.378, 2.979}, {1.414, 3.038}}
```

In[132]:=
```
original3 = ListPlot[data3, Frame -> True,
                     FrameLabel -> {"Raíz longitud (m)", "Periodo (s)"},
                     ImageSize → Large,
                     PlotStyle -> {PointSize[0.02], Green}]
```

Out[132]=

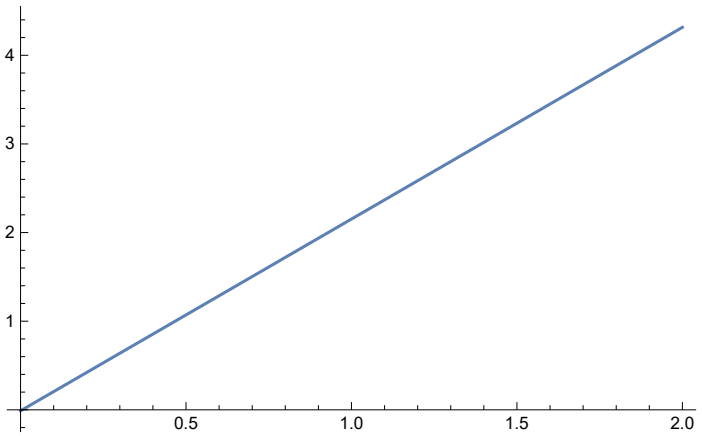


In[133]:=
```
model = LinearModelFit[data3, x, x]
```

Out[133]=
```
FittedModel[ -0.0107026 + 2.16298 x ]
```

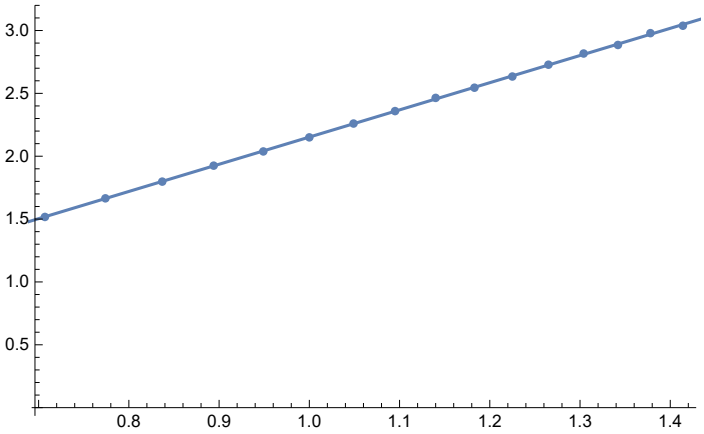
In[134]:=
```
Plot[model["BestFit"], {x, 0, 2}]
```

Out[134]=



In[135]:=
```
Show[ListPlot[data3], Plot[model["BestFit"], {x, 0, 2}]]
```
mue·· representación de lista representación gráfica

Out[135]=



In[136]:=
```
Show[original1, original2, original3]
```
muestra

Out[136]=