```
\ln[129] = M_S = \{\{s_x, 0, 0, 0\}, \{0, s_y, 0, 0\}, \{0, 0, s_z, 0\}, \{0, 0, 0, 1\}\}
Out[129]= \{ \{ s_x, 0, 0, 0 \}, \{ 0, s_y, 0, 0 \}, \{ 0, 0, s_z, 0 \}, \{ 0, 0, 0, 1 \} \}
 \ln[130] = M_R = \{\{\cos\gamma, -\sin\gamma, 0, 0\}, \{\sin\gamma, \cos\gamma, 0, 0\}, \{0, 0, 1, 0\}, \{0, 0, 0, 1\}\}
Out[130] = \{ \{ \cos \gamma, -\sin \gamma, 0, 0 \}, \{ \sin \gamma, \cos \gamma, 0, 0 \}, \{ 0, 0, 1, 0 \}, \{ 0, 0, 0, 1 \} \}
 ln[135] = a = {\alpha, \beta, \gamma}
Out[135]= \{\alpha, \beta, \gamma\}
 \ln[132] = M_T = \{\{1, 0, 0, 0\}, \{0, 1, 0, 0\}, \{0, 0, 1, 0\}, \{t_x, t_y, t_z, 1\}\}
Out[132]= \{\{1, 0, 0, 0\}, \{0, 1, 0, 0\}, \{0, 0, 1, 0\}, \{t_x, t_y, t_z, 1\}\}
 ln[134]:= v = \{x, y, z, 1\}
Out[134]= \{x, y, z, 1\}
 In[136]:= \mathbf{v} \cdot \mathbf{M}_{\mathbf{S}} \cdot \mathbf{M}_{\mathbf{R}} \cdot \mathbf{M}_{\mathbf{T}}
Out[136]= \left\{\cos x \cdot s_x + \sin y \cdot s_y + t_x, -\sin x \cdot s_x + \cos y \cdot s_y + t_y, z \cdot s_z + t_z, 1\right\}
 In[138]:= \mathbf{M}_{\mathbf{MW}} = \mathbf{M}_{\mathbf{S}} \cdot \mathbf{M}_{\mathbf{R}} \cdot \mathbf{M}_{\mathbf{T}}
\text{Out[138]= } \left\{ \left\{ \cos y \, \mathbf{s}_{x} \,,\, -\sin y \, \mathbf{s}_{x} \,,\, 0 \,,\, 0 \right\},\, \left\{ \sin y \, \mathbf{s}_{y} \,,\, \cos y \, \mathbf{s}_{y} \,,\, 0 \,,\, 0 \right\},\, \left\{ 0 \,,\, 0 \,,\, \mathbf{s}_{z} \,,\, 0 \right\},\, \left\{ \mathbf{t}_{x} \,,\, \mathbf{t}_{y} \,,\, \mathbf{t}_{z} \,,\, 1 \right\} \right\}
 In[139]:= V · M<sub>MW</sub>
\text{Out[139]=} \left\{ \cos y \times s_x + \sin y \cdot y \cdot s_y + t_x, - \sin y \cdot x \cdot s_x + \cos y \cdot y \cdot s_y + t_y, z \cdot s_z + t_z, 1 \right\}
 In[140]:= M<sub>MW</sub> // MatrixForm
Out[140]//MatrixForm=
                \cos \gamma \, s_x - \sin \gamma \, s_x = 0 = 0
                sin\gamma s_y cos\gamma s_y 0 0
```