In[28]:=
$$\begin{pmatrix} \text{Cos}[\phi] & -\text{Sin}[\phi] & 0 \\ \text{Sin}[\phi] & \text{Cos}[\phi] & 0 \\ 0 & 0 & 1 \end{pmatrix} . \begin{pmatrix} \text{Cos}[\theta] & 0 & \text{Sin}[\theta] \\ 0 & 1 & 0 \\ -\text{Sin}[\theta] & 0 & \text{Cos}[\theta] \end{pmatrix} . \begin{pmatrix} \text{Cos}[\psi] & -\text{Sin}[\psi] & 0 \\ \text{Sin}[\psi] & \text{Cos}[\psi] & 0 \\ 0 & 0 & 1 \end{pmatrix}$$

Out[28]=
```
{{Cos[θ] Cos[ϕ] Cos[ψ] - Sin[ϕ] Sin[ψ],
  -Cos[ψ] Sin[ϕ] - Cos[θ] Cos[ϕ] Sin[ψ], Cos[ϕ] Sin[θ]},
 {Cos[θ] Cos[ψ] Sin[ϕ] + Cos[ϕ] Sin[ψ], Cos[ϕ] Cos[ψ] - Cos[θ] Sin[ϕ] Sin[ψ], Sin[θ] Sin[ϕ]},
 {-Cos[ψ] Sin[θ], Sin[θ] Sin[ψ], Cos[θ]}}
```

In[29]:=
$$\begin{pmatrix} \text{Cos}\left[281.004/180*\text{Pi}\right] & -\text{Sin}\left[281.004/180*\text{Pi}\right] & 0 \\ \text{Sin}\left[281.004/180*\text{Pi}\right] & \text{Cos}\left[281.004/180*\text{Pi}\right] & 0 \\ 0 & 0 & 1 \end{pmatrix} .$$

$$\begin{pmatrix} \text{Cos}\left[94.078/180*\text{Pi}\right] & 0 & \text{Sin}\left[94.078/180*\text{Pi}\right] \\ 0 & 1 & 0 \\ -\text{Sin}\left[94.078/180*\text{Pi}\right] & 0 & \text{Cos}\left[94.078/180*\text{Pi}\right] \end{pmatrix} .$$

$$\begin{pmatrix} \text{Cos}\left[184.470/180*\text{Pi}\right] & -\text{Sin}\left[184.470/180*\text{Pi}\right] & 0 \\ \text{Sin}\left[184.470/180*\text{Pi}\right] & \text{Cos}\left[184.470/180*\text{Pi}\right] & 0 \\ 0 & 0 & 1 \end{pmatrix}$$

Out[29]=
```
{{-0.0629713, -0.979686, 0.190394},
 {-0.084471, -0.184856, -0.979129}, {0.994434, -0.0777398, -0.0711144}}
```

In[30]:=
```
{{-0.06297127655395479', -0.9796859936586356', 0.19039425453058476'},
  {-0.08447103667230994', -0.18485637944549319', -0.9791285732434782'},
  {0.9944341417573467', -0.07773977622424437', -0.07111444930486206'}}.
 {0.00261799, 0.00261799, 0.9999931}
```

Out[30]=
```
{0.187663, -0.979827, -0.0687141}
```

In[38]:=
```
ArcTan[-0.9798269137384451/0.18766327450338463] /Pi *180.0 +360
```

Out[38]=
```
280.842
```

In[46]:=
```
ArcTan[-0.06871406193313985'/Sqrt[0.18766327450338463^2+(-0.9798269137384451)^2]]/
  Pi *180.0
```

Out[46]=
```
-3.94013
```

In[47]:=
```
{{-0.06297127655395479', -0.9796859936586356', 0.19039425453058476'},
  {-0.08447103667230994', -0.18485637944549319', -0.9791285732434782'},
  {0.9944341417573467', -0.07773977622424437', -0.07111444930486206'}}.
 {0.00261799, -0.00261799, 0.9999931}
```

Out[47]=
```
{0.192793, -0.978859, -0.068307}
```

In[48]:=
```
ArcTan[-0.978859009432796'/0.19279289077246137'] /Pi *180.0 +360
```

Out[48]=
```
281.142
```

In[49]:=
```
ArcTan[-0.06830701801962523'/
    Sqrt[0.19279289077246137'^2+(-0.978859009432796')^2]] /Pi *180.0
```

Out[49]=
```
-3.91675
```

In[53]:=
```
{{-0.06297127655395479`, -0.9796859936586356`, 0.19039425453058476`},
  {-0.08447103667230994`, -0.18485637944549319`, -0.9791285732434782`},
  {0.9944341417573467`, -0.07773977622424437`, -0.07111444930486206`}}.
 {-0.00261799, -0.00261799, 0.9999931}
```

Out[53]= {0.193123, -0.978417, -0.0735139}

In[60]:=
```
ArcTan[-0.9784167207742006` / 0.19312260711707235`] / Pi * 180.0 + 360
```

Out[60]= 281.166

In[62]:=
```
ArcTan[-0.07351385529718386` / Sqrt[
    0.19312260711707235`^2 + (-0.9784167207742006`)^2]] / Pi * 180.0
```

Out[62]= -4.21584

In[69]:=
```
{{-0.06297127655395479`, -0.9796859936586356`, 0.19039425453058476`},
  {-0.08447103667230994`, -0.18485637944549319`, -0.9791285732434782`},
  {0.9944341417573467`, -0.07773977622424437`, -0.07111444930486206`}}.
 {-0.00261799, 0.00261799, 0.9999931}
```

Out[69]= {0.187993, -0.979385, -0.0739209}

In[67]:=
```
ArcTan[-0.9793846250798496` / 0.18799299084799562`] / Pi * 180.0 + 360
```

Out[67]= 280.866

In[70]:=
```
ArcTan[-0.07392089921069848 / Sqrt[
    0.18799299084799562`^2 + (-0.9793846250798496`)^2]] / Pi * 180.0
```

Out[70]= -4.23922