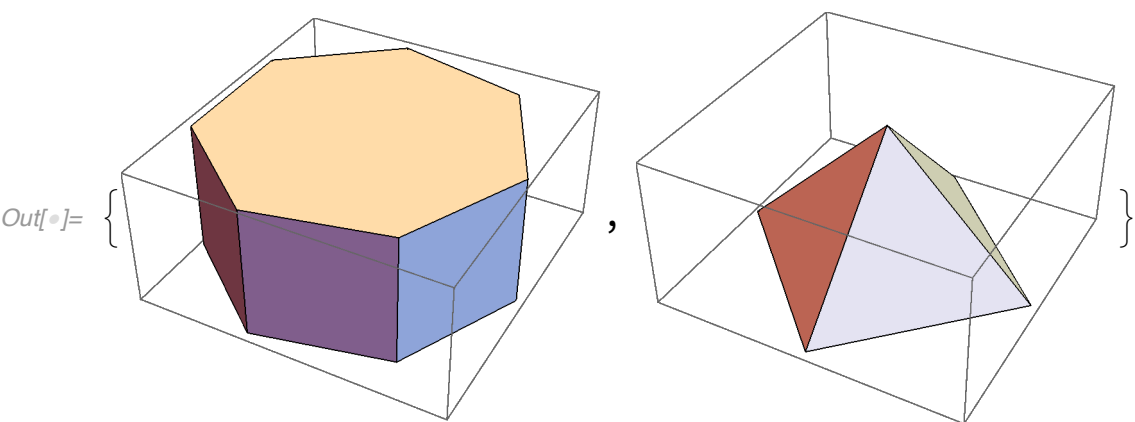


```
In[•]:= PolyhedronData /@ {"Prism", 7}, {"Pyramid", 4}
```

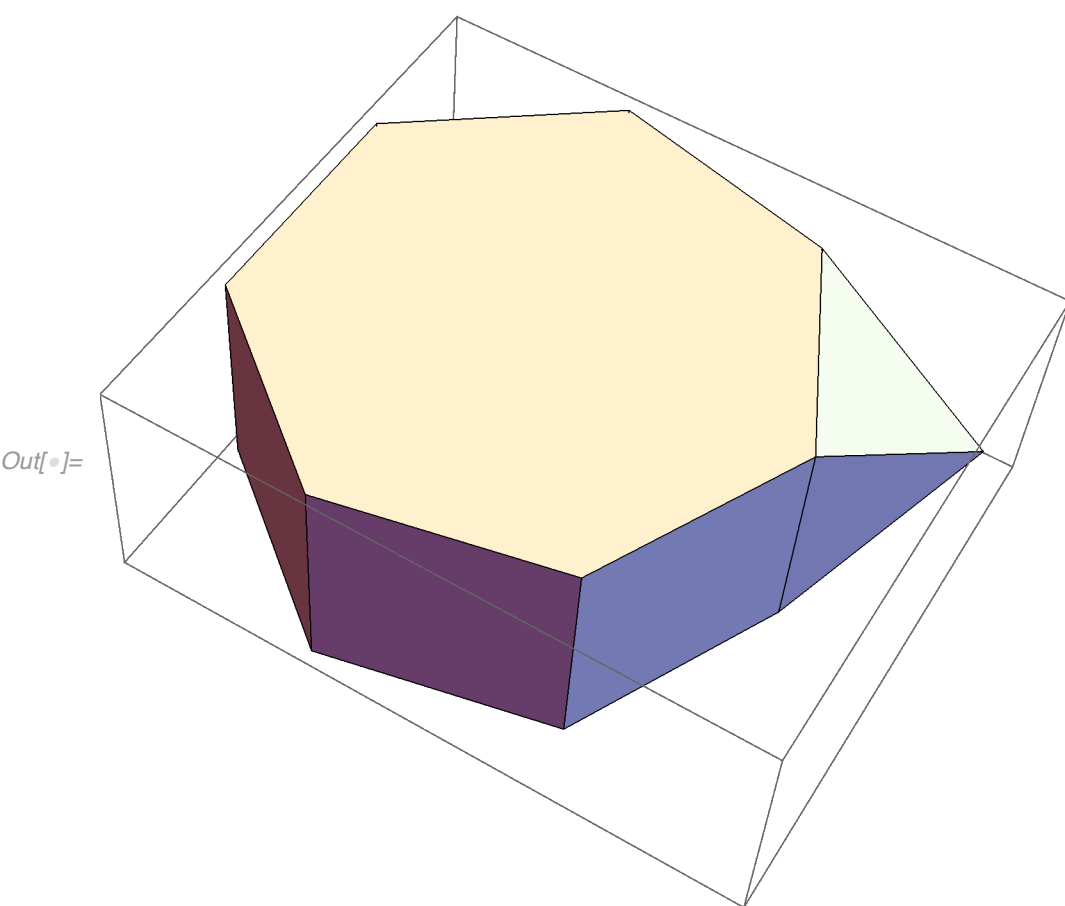


```
In[•]:= Cases[Normal@#[[1]], {_, _, _, _}, 9, 1][[1]] & /@ %
```

Out[•]=

$$\left\{ \left\{ \left\{ \frac{1}{2} \operatorname{Csc}\left[\frac{\pi}{7}\right], 0, -\frac{1}{2} \right\}, \left\{ \frac{1}{2} \operatorname{Csc}\left[\frac{\pi}{7}\right] \sin\left[\frac{3\pi}{14}\right], \frac{1}{2} \cos\left[\frac{3\pi}{14}\right] \operatorname{Csc}\left[\frac{\pi}{7}\right], -\frac{1}{2} \right\}, \right. \right. \\ \left. \left\{ \frac{1}{2} \operatorname{Csc}\left[\frac{\pi}{7}\right] \sin\left[\frac{3\pi}{14}\right], \frac{1}{2} \cos\left[\frac{3\pi}{14}\right] \operatorname{Csc}\left[\frac{\pi}{7}\right], \frac{1}{2} \right\}, \left\{ \frac{1}{2} \operatorname{Csc}\left[\frac{\pi}{7}\right], 0, \frac{1}{2} \right\} \right\}, \\ \left. \left\{ \left\{ \frac{1}{\sqrt{2}}, 0, 0 \right\}, \left\{ 0, -\frac{1}{\sqrt{2}}, 0 \right\}, \left\{ -\frac{1}{\sqrt{2}}, 0, 0 \right\}, \left\{ 0, \frac{1}{\sqrt{2}}, 0 \right\} \right\} \right\}$$

```
In[•]:= Graphics3D[
  {%[[1, 1]], GeometricTransformation[%[[2, 1]],
    (FindGeometricTransform[%[[1]], Reverse@%[[2]]))[[2]]}]
```



```
In[•]:= DeleteDuplicates@PolyhedronData[#, "DihedralAngles"] & /@ {"Pyramid", 4}, {"Prism", 7}
```

Out[•]=

$$\left\{ \left\{ \operatorname{ArcSec}[-3], \operatorname{ArcSec}[\sqrt{3}] \right\}, \left\{ \frac{\pi}{2}, \frac{5\pi}{7} \right\} \right\}$$

```
In[•]:= UnitConvert[Quantity[%[[1, 2]] + %[[2, 2]] // Echo // N, "Radians"], "Degrees"]
```

» $\frac{5\pi}{7} + \operatorname{ArcSec}[\sqrt{3}]$

Out[•]= 183.307038888674°