

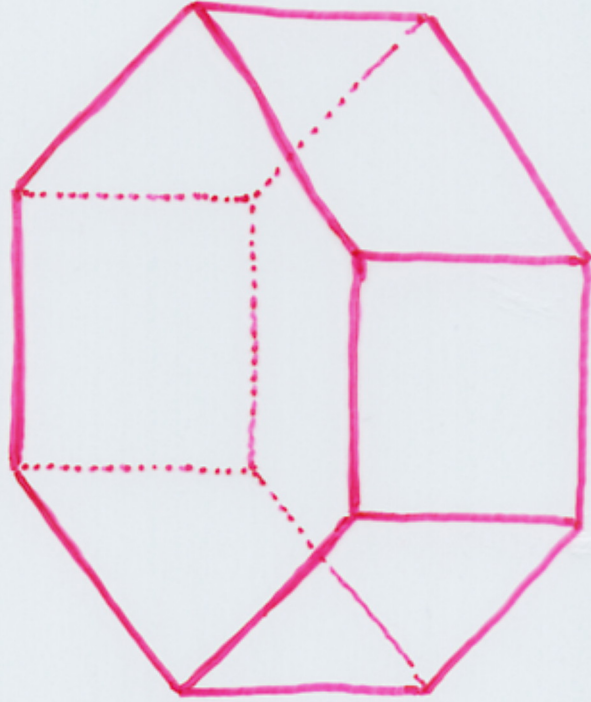
DESCARTES LOST THEOREM

René Descartes: Elementary Treatise on Polyhedra (1613-21)

1676 Leibnitz

1752-53 Euler

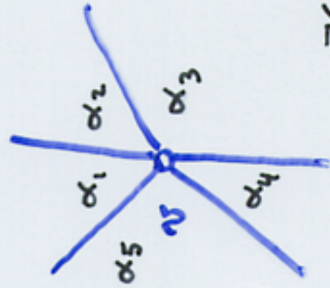
Gauss



$$\begin{aligned} K(v) &= 2\pi - \sum \text{inc. angles} \\ &= 2\pi - \frac{\pi}{2} - \frac{\pi}{2} - \frac{2\pi}{3} \\ &= \frac{\pi}{3} \end{aligned}$$

DESCARTES LOST THEOREM

$$\sum_v K(v) = 4\pi$$



$$K(v) := 2\pi - \sum_{i=1}^d \alpha_i$$

..... GAUSSIAN CURVATURE AT v