

CREO ELEMENT-3

SWEEP AND BLEND

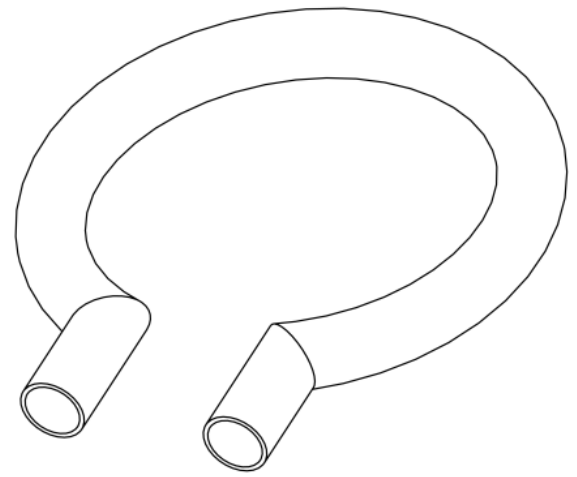
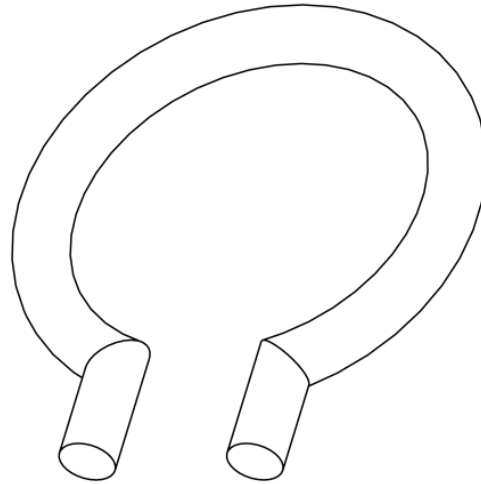
國立陽明大學 生物醫學工程系
林峻立 教授

SWEEP

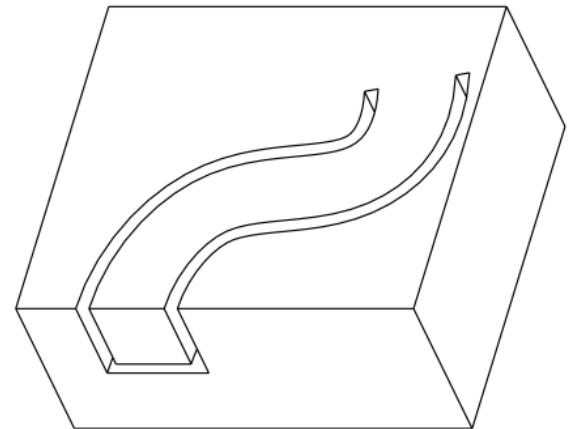
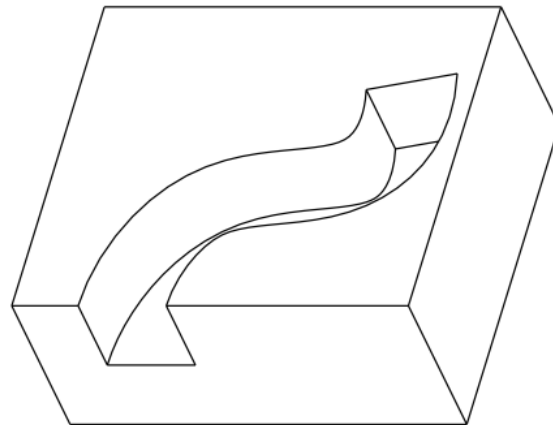
Solid

Thin

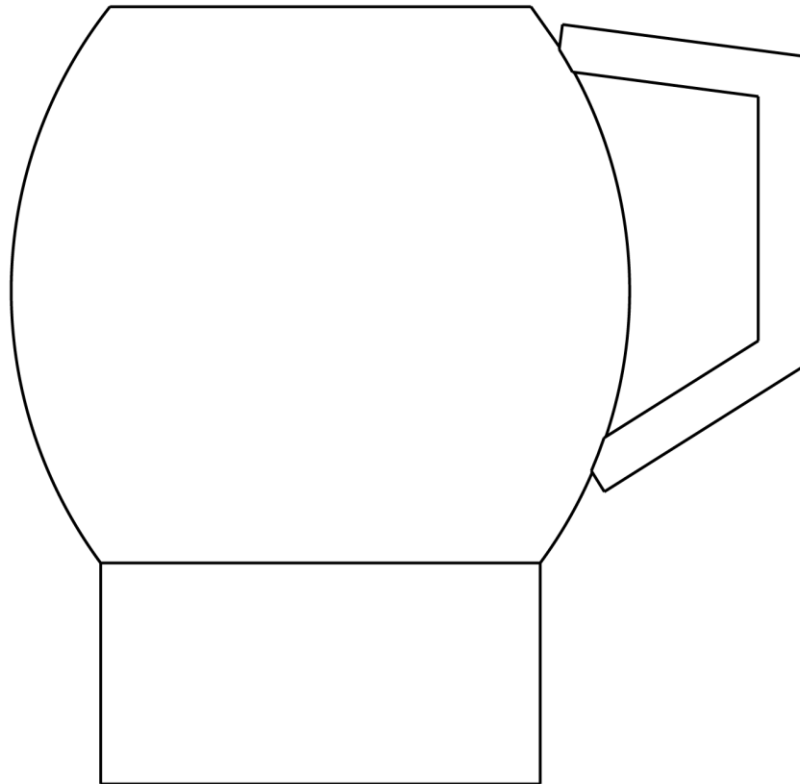
Protrusion



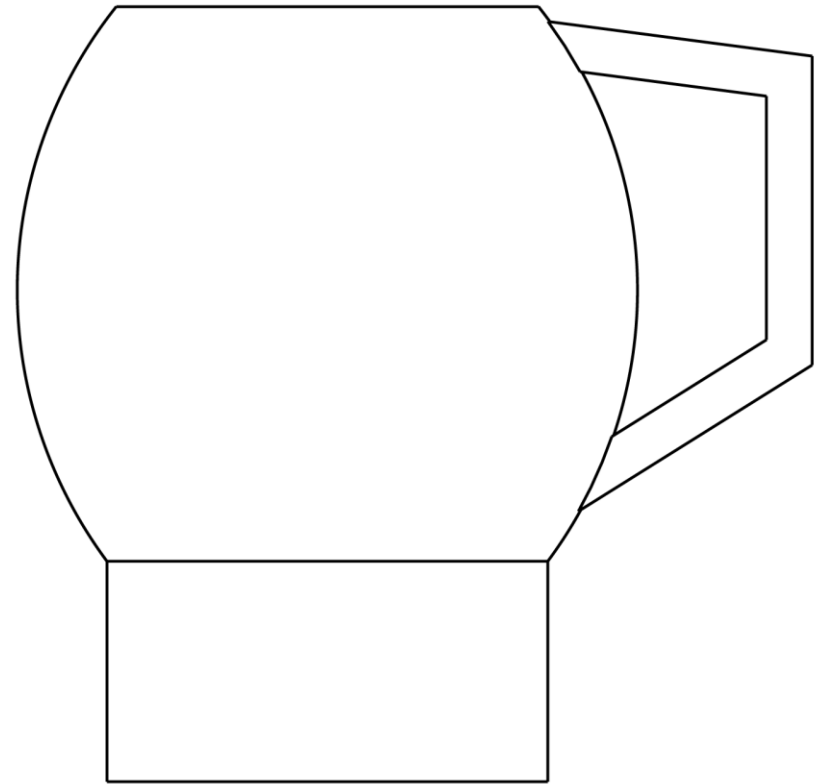
Cut

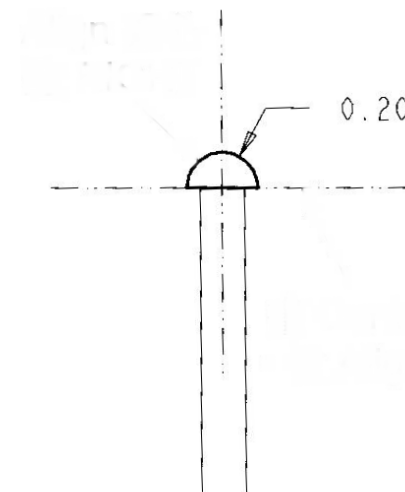
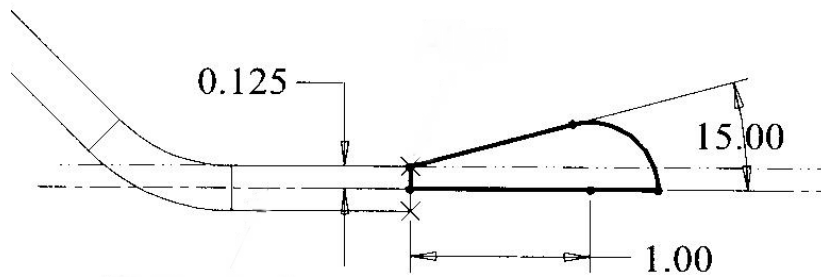
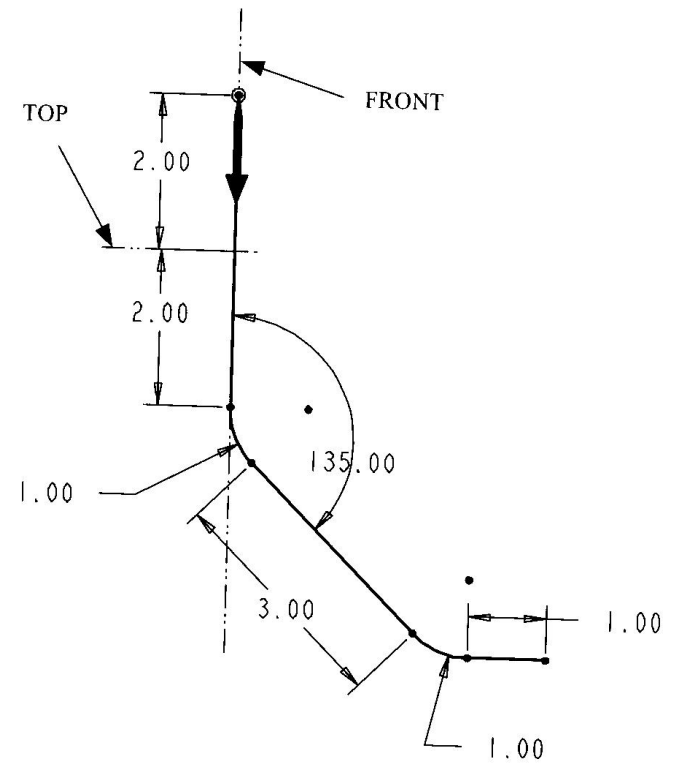
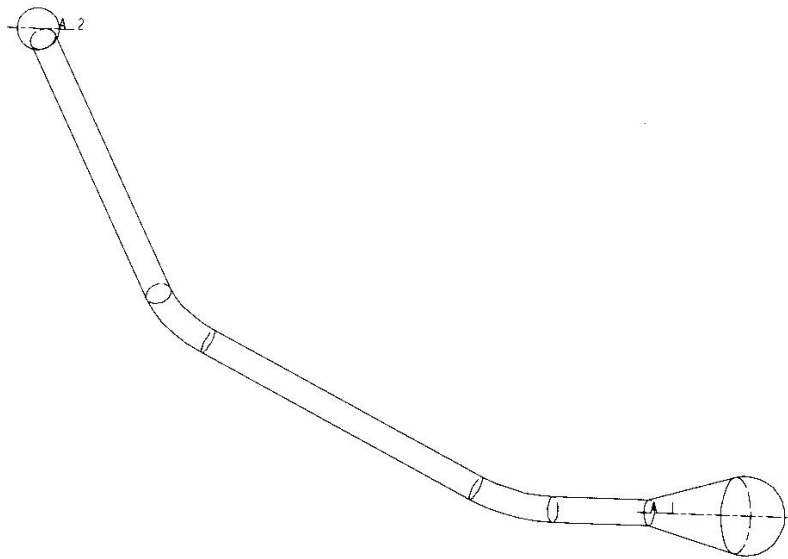


Free Ends



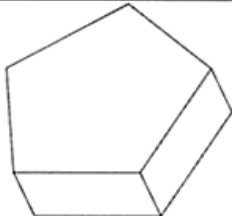
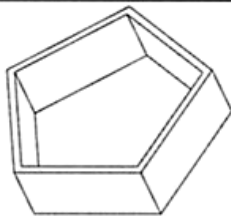
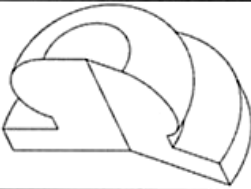
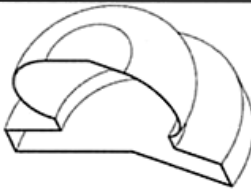
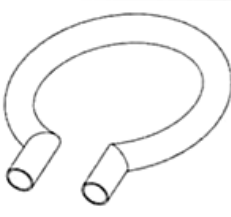
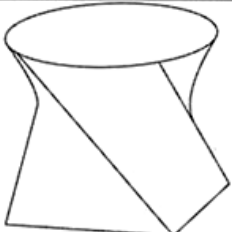
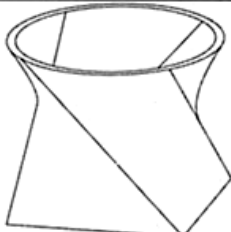
Merge Ends



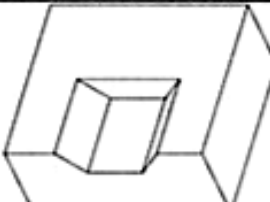


BLEND 特徵

■長肉（加材料）-Protrusion

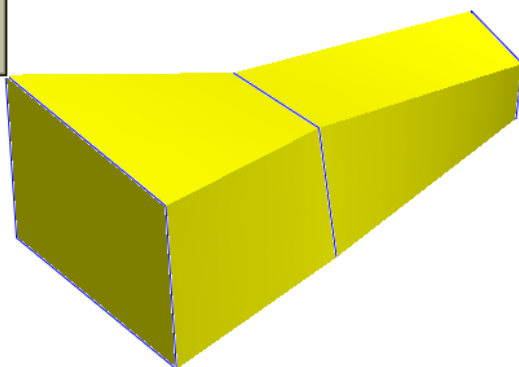
	實體 (Solid)	薄長薄肉 (Thin)
引伸 (Extrude)		
旋轉 (Revolve)		
掃描 (Sweep)		
混合 (Blend)		

■切削（切減材料）-Cut

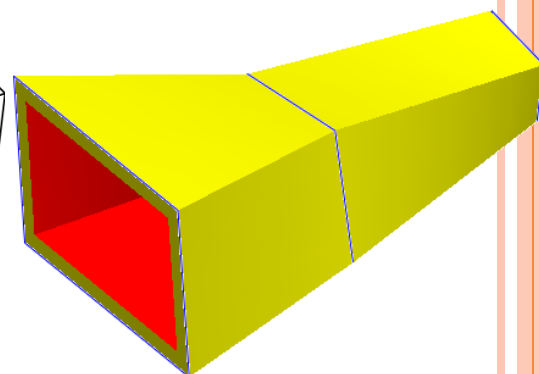
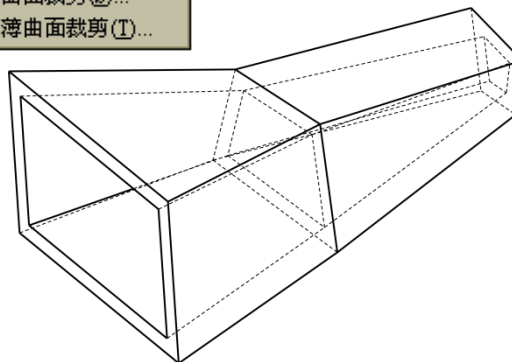
	實體 (Solid)	薄壁切削 (Thin)
引伸 (Extrude)		
旋轉 (Revolve)		
掃描 (Sweep)		
混合 (Blend)		

BLEND 特徵

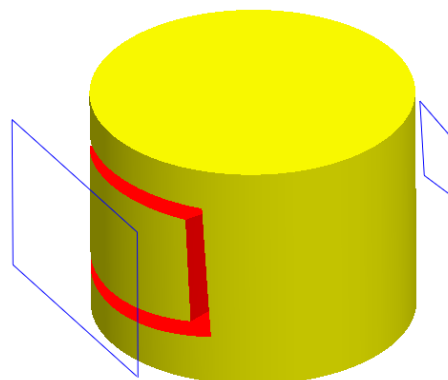
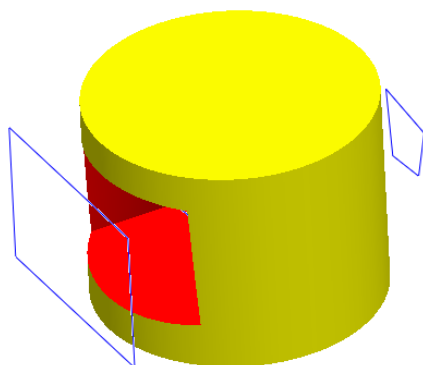
長肉(P)...
薄長肉(T)...
切削(C)...
薄壁切削(T)...
曲面(S)...
曲面裁剪(S)...
薄曲面裁剪(T)...



長肉(P)...
薄長肉(T)...
切削(C)...
薄壁切削(T)...
曲面(S)...
曲面裁剪(S)...
薄曲面裁剪(T)...



長肉(P)...
薄長肉(T)...
切削(C)...
薄壁切削(T)...
曲面(S)...
曲面裁剪(S)...
薄曲面裁剪(T)...



長肉(P)...
薄長肉(T)...
切削(C)...
薄壁切削(T)...
曲面(S)...
曲面裁剪(S)...
薄曲面裁剪(T)...

BLEND 特徵

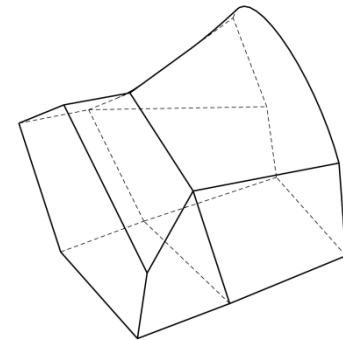
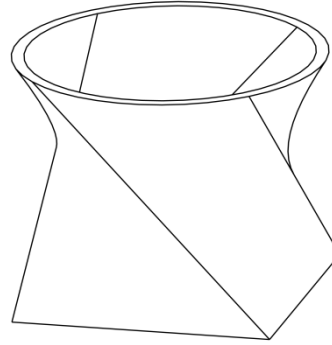
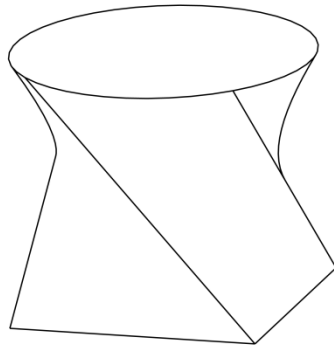
■ Parallel (平行)/Rotational (旋轉)/General (一般)

Solid

Thin

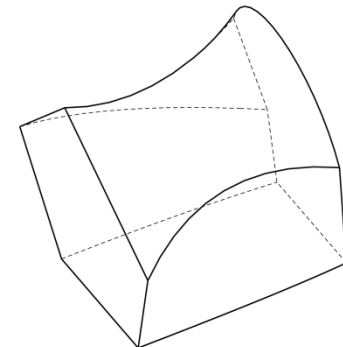
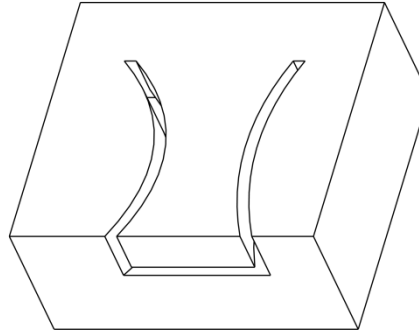
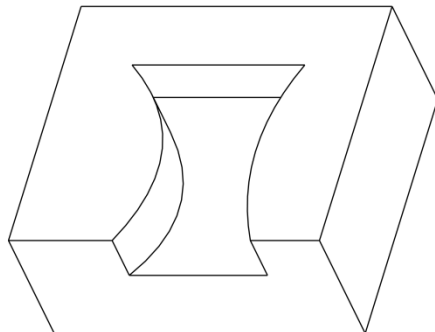
直線連接

Protrusion

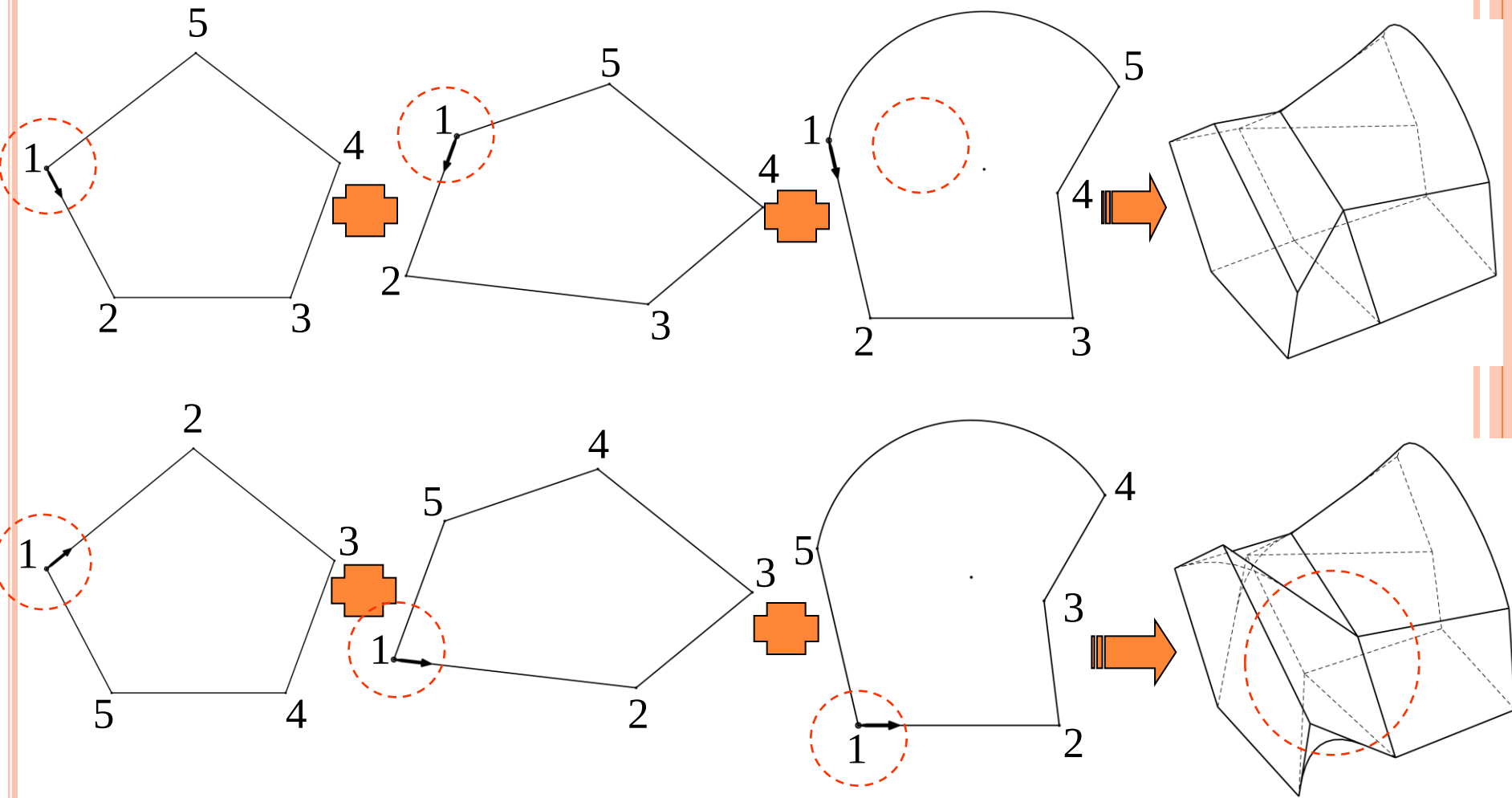


平滑連接

Cut



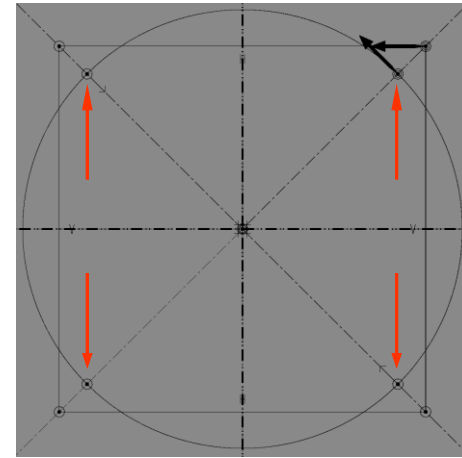
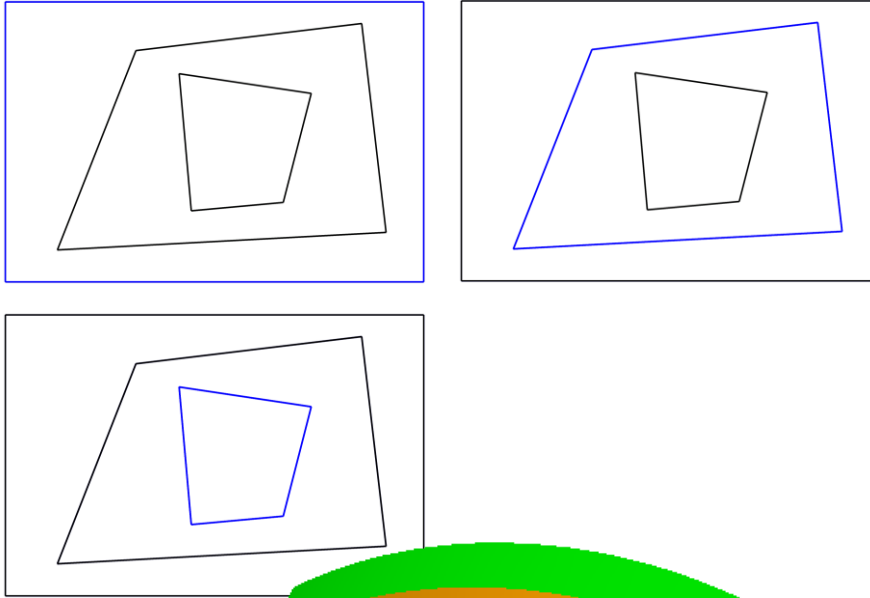
PARALLEL (平行)



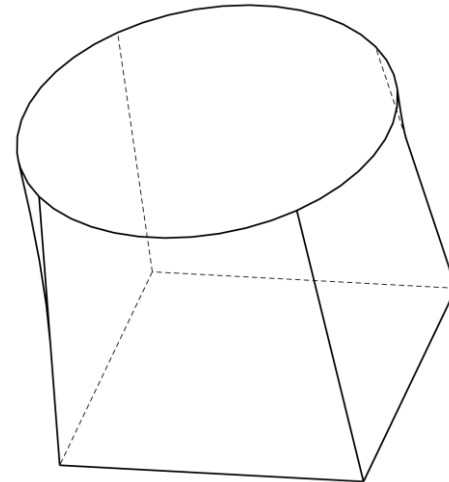
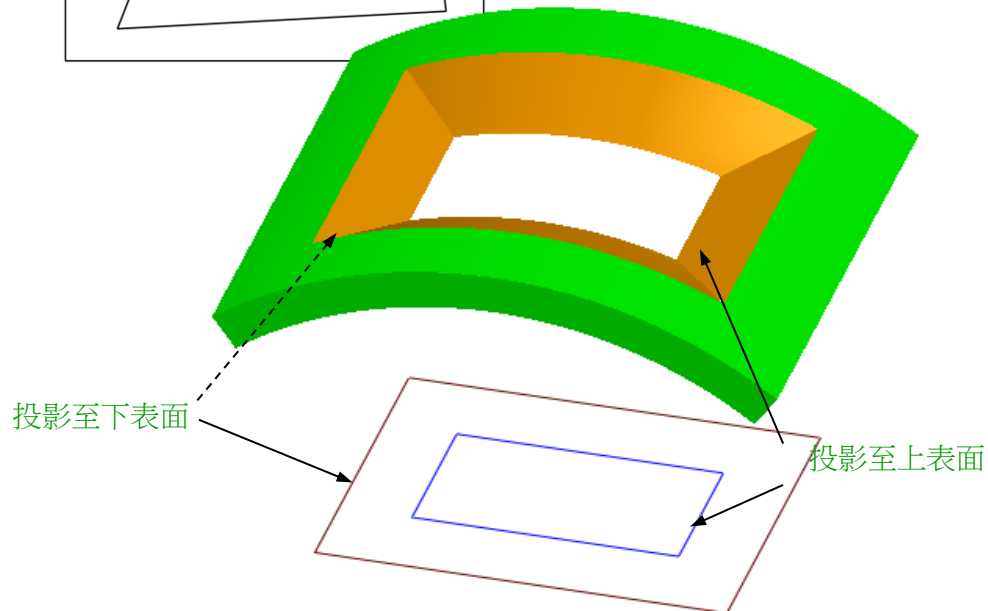
帶有“扭轉”效果

BLEND 特徵

“圓形” vs. “多邊形”

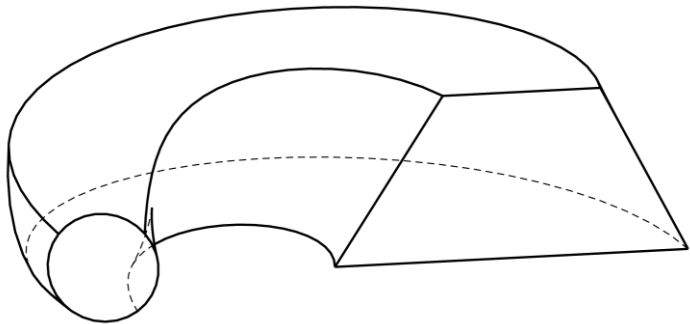


截斷點

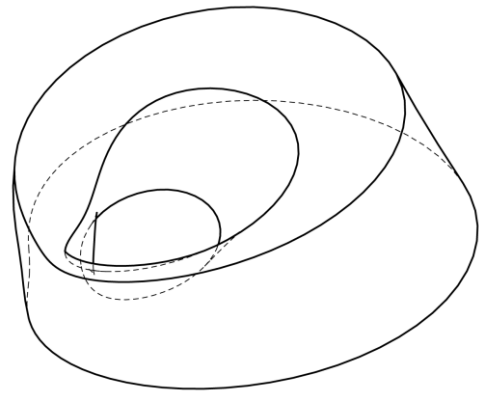


ROTATIONAL BLEND

- 屬 非平行 混合;截面之定位是：上一個截面對 “草繪座標系” 之 Y-軸 旋轉若干角度而決定。
- 每次最大角度為 120 度



平 滑 連 接



平 滑 連 接 且 封 閉



EXAMPLE

