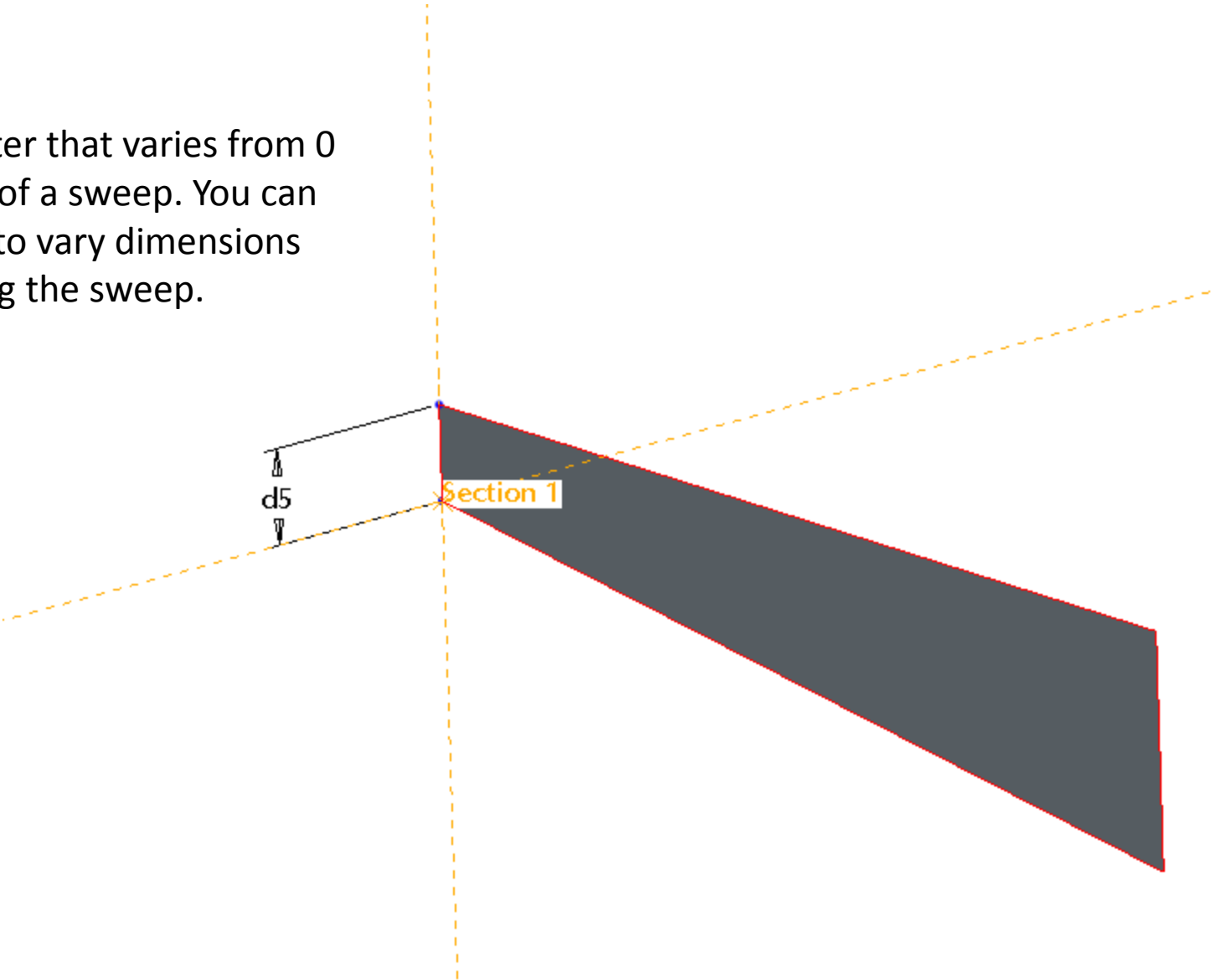
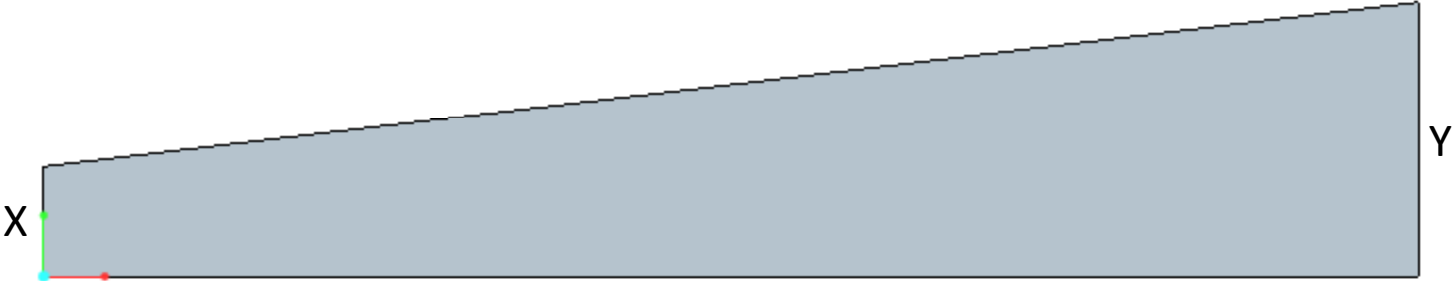


Trajpar is a parameter that varies from 0 to 1 along the path of a sweep. You can use this parameter to vary dimensions (like d5 below) along the sweep.

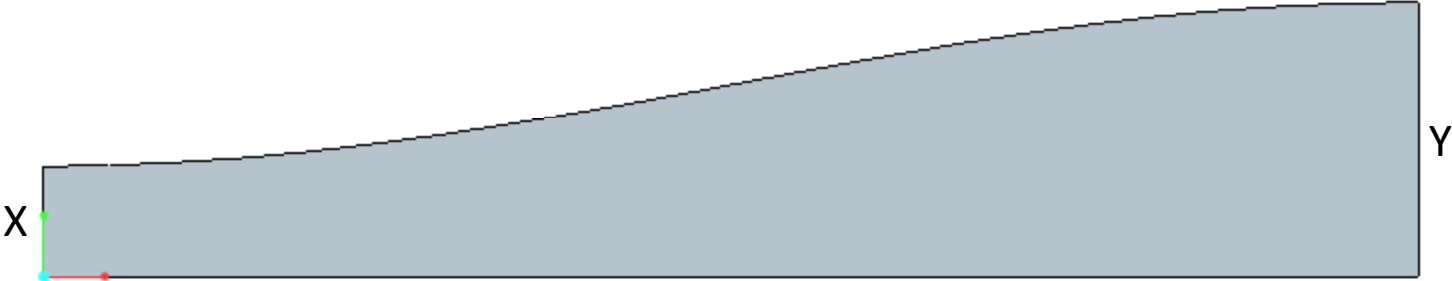


You can vary it linearly



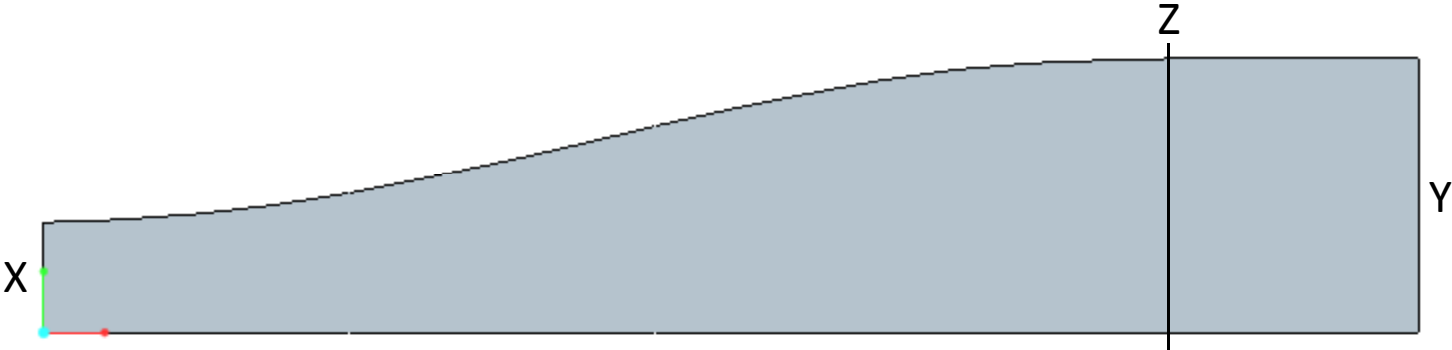
$$sd5 = X + trajpar * (Y - X)$$

You can make a smooth transition
(tangent to horizontal at both ends)



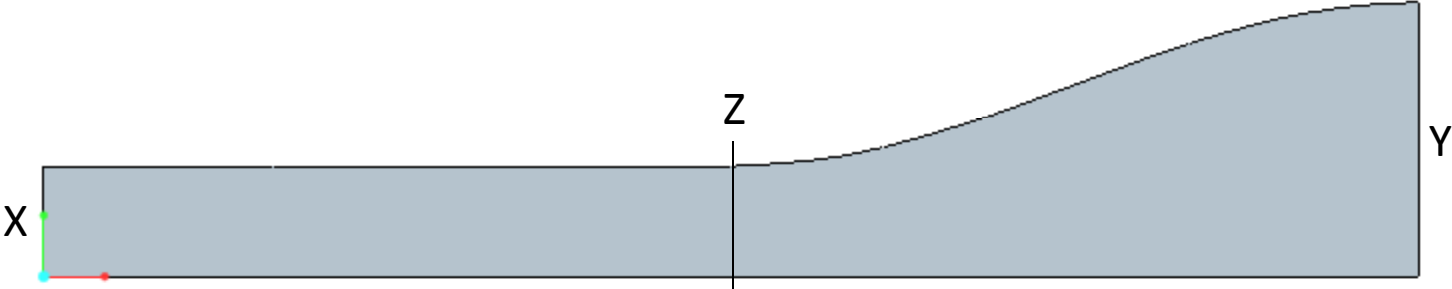
$$sd5 = X + (\cos(180 * (\text{trajpar}) - 1) / 2) * (X - Y)$$

You can make a smooth transition from start to a point and then hold a value



```
if trajpar<=Z
sd5=X+(cos(180*(trajpar/Z))-1)/2*(X-Y)
else
sd5=Y
endif
```

You can hold a value for a stretch and then smoothly transition to finish.



```
if trajpar<=Z
  sd5=X
else
  sd5=X+(cos(180*((1/(1-Z))*(trajpar-Z)))-1)/2*(X-Y)
endif
```