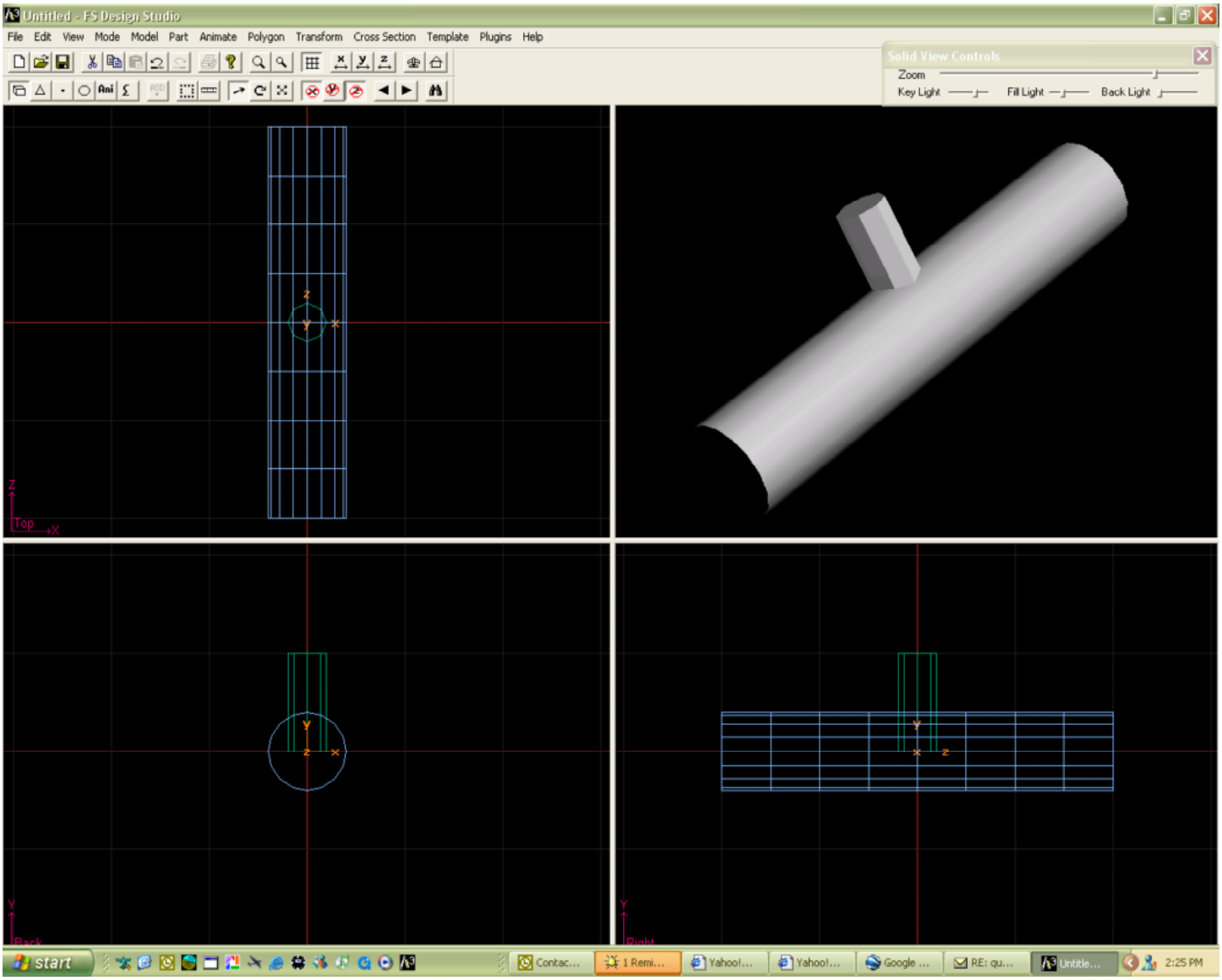
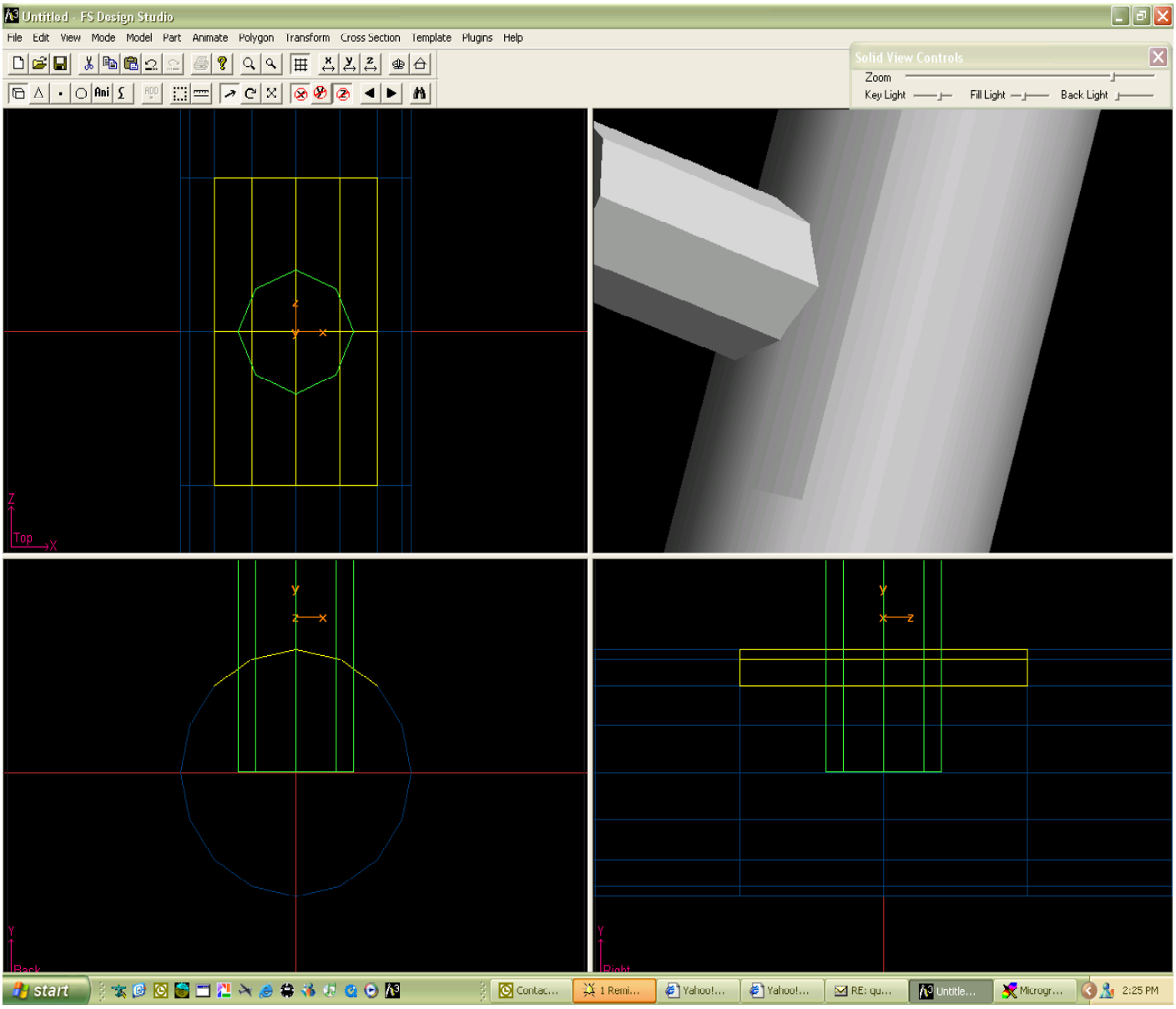
Basic FSDS 3 Boolean Operation

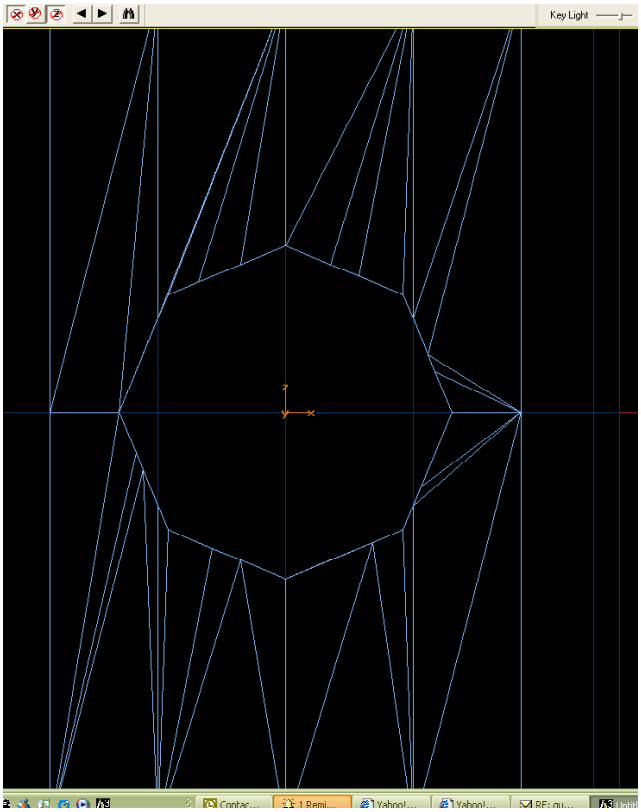
Starting with two parts:
Big tube is part to be cut. (in blue)
Small tube is cutting tool named: **tool** (in green)



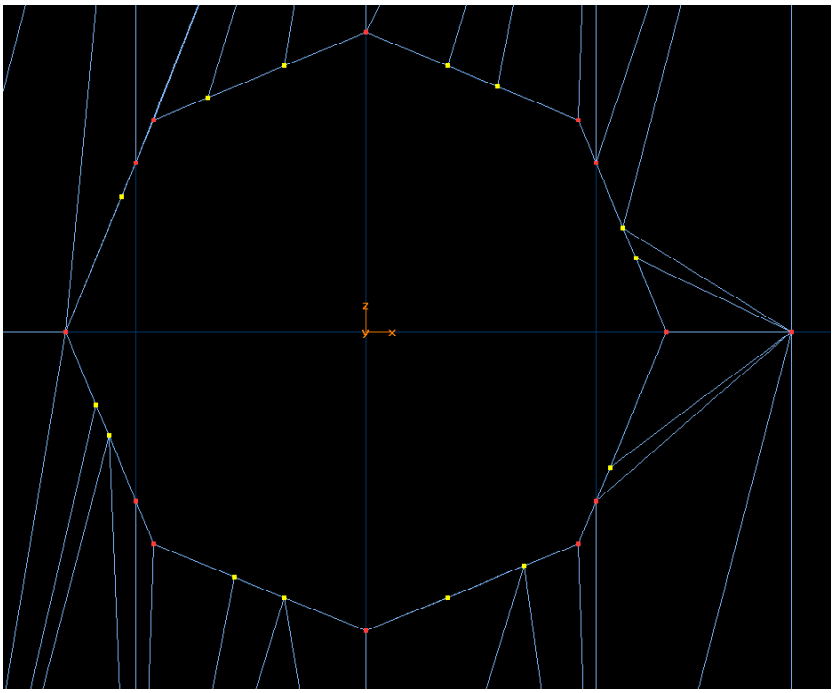
Copy and paste big tube and then remove all points and polygons not affected by tool.



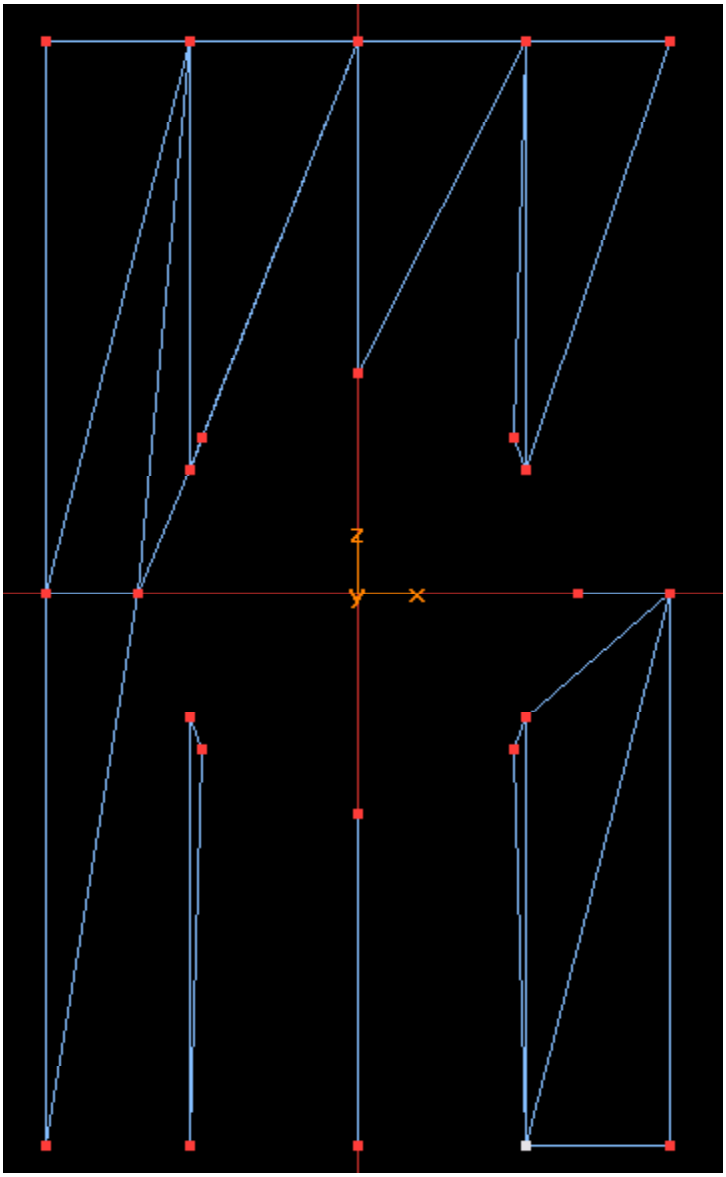
Select the part named tool and the newly cut down big tube part (in yellow)
Go to Part > Boolean Operation
Remove the “booleanized” tool parts leaving only the original tool part, big tube cut part and newly created big tube hole.



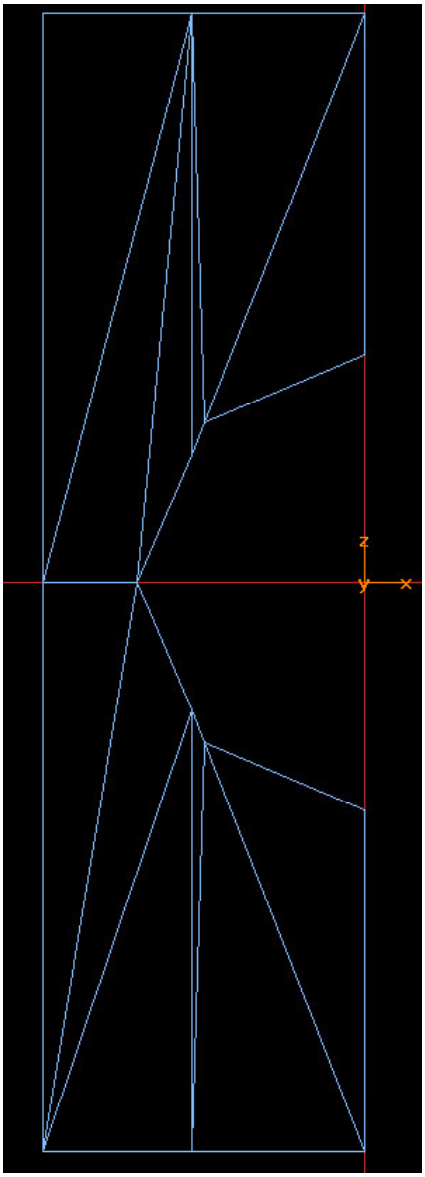
Using the original tool and big tube parts as guidelines remove the unneeded points form the newly created part. Notice that the yellow points do not coordinate with any lines from the tool pot or big tube part and can be removed.



Once you have the removed the unnecessary parts you can begin rebuilding the part by filling in the missing polygons. For symmetrical parts I usually on ly fill one side, cut it in half, flip it and join the two together to save time of filling in both sides.

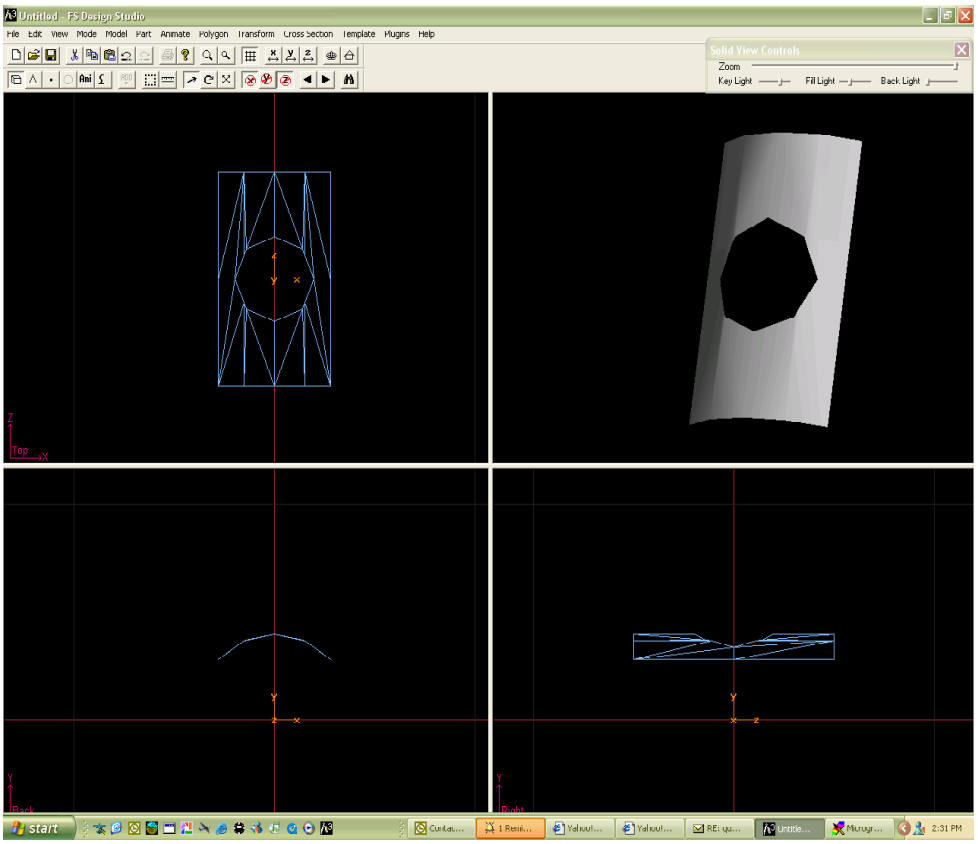


Removed points



Filled in polygons (half side)

Half sides copy, pasted, flipped and joined.



New cut portion rejoined to main big part.