



Universidade Federal de Pernambuco
DEMEC - Eng. Naval

Modelagem de Painéis Curvos Utilizando o Ansys Design Modeler

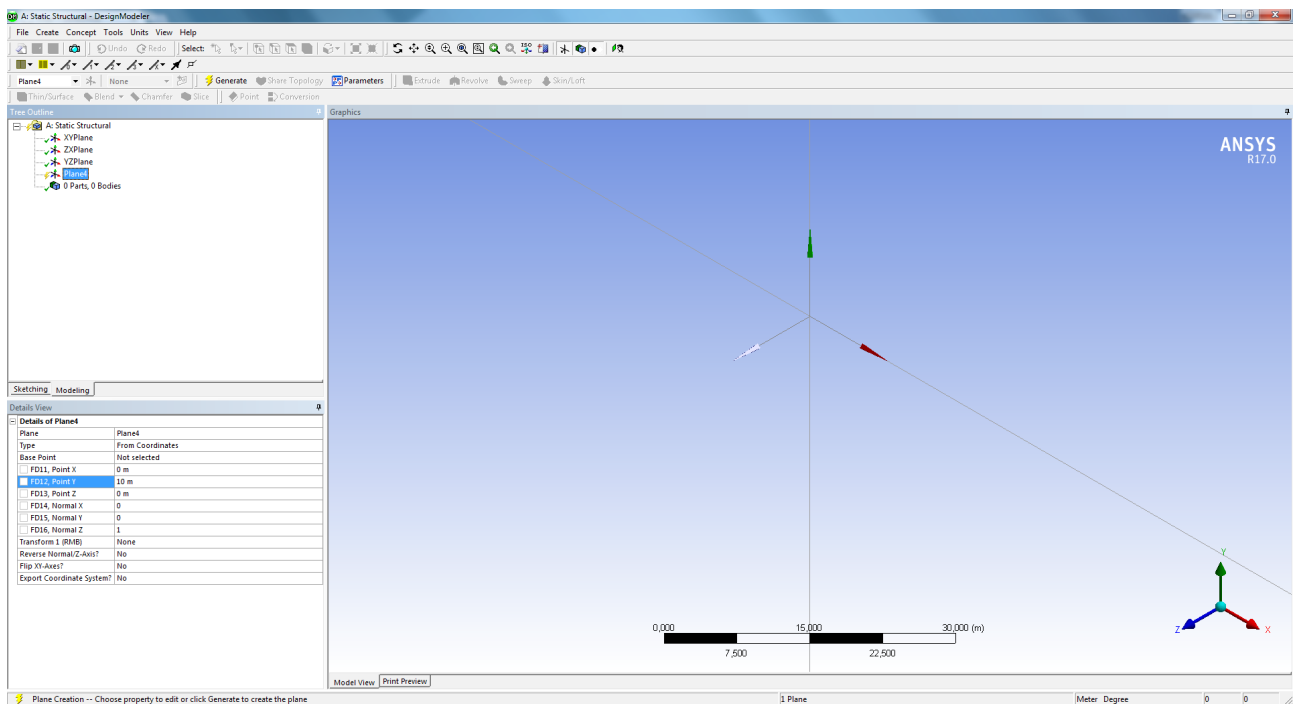
Prof. Adriano Dayvson Marques Ferreira

Recife, Outubro de 2016

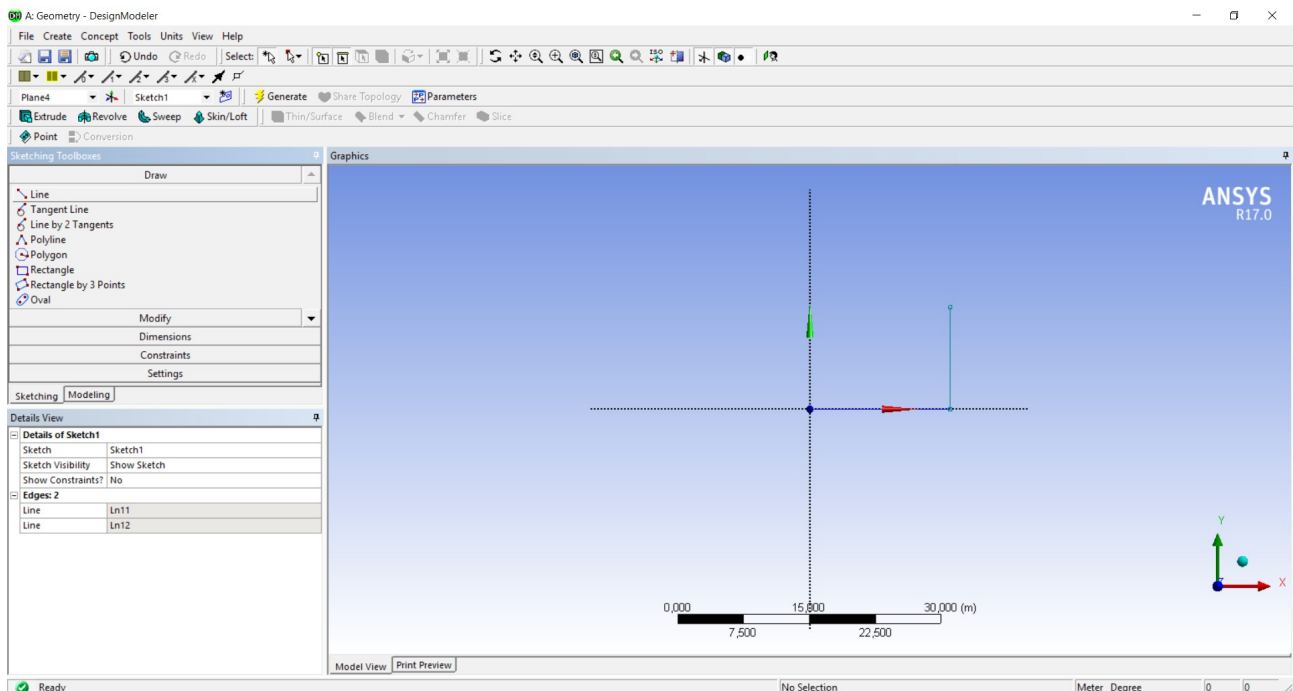
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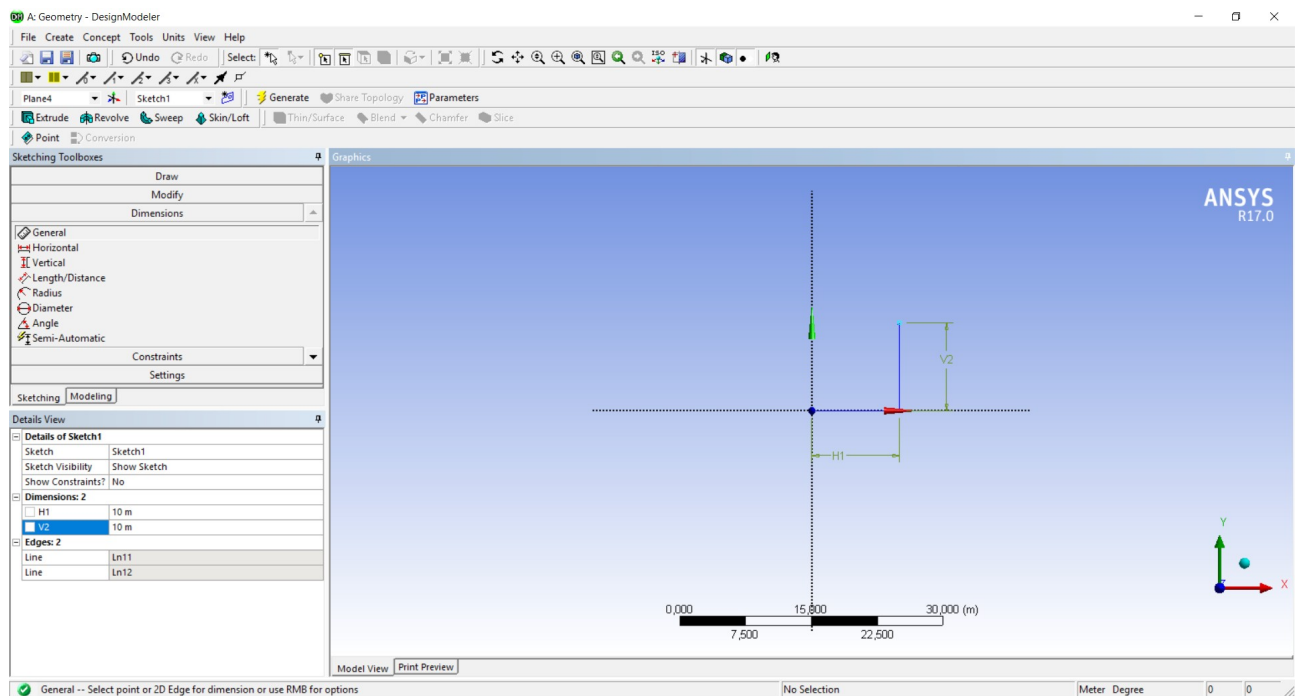
1. New Plane



2. New Sketch – Draw – Line

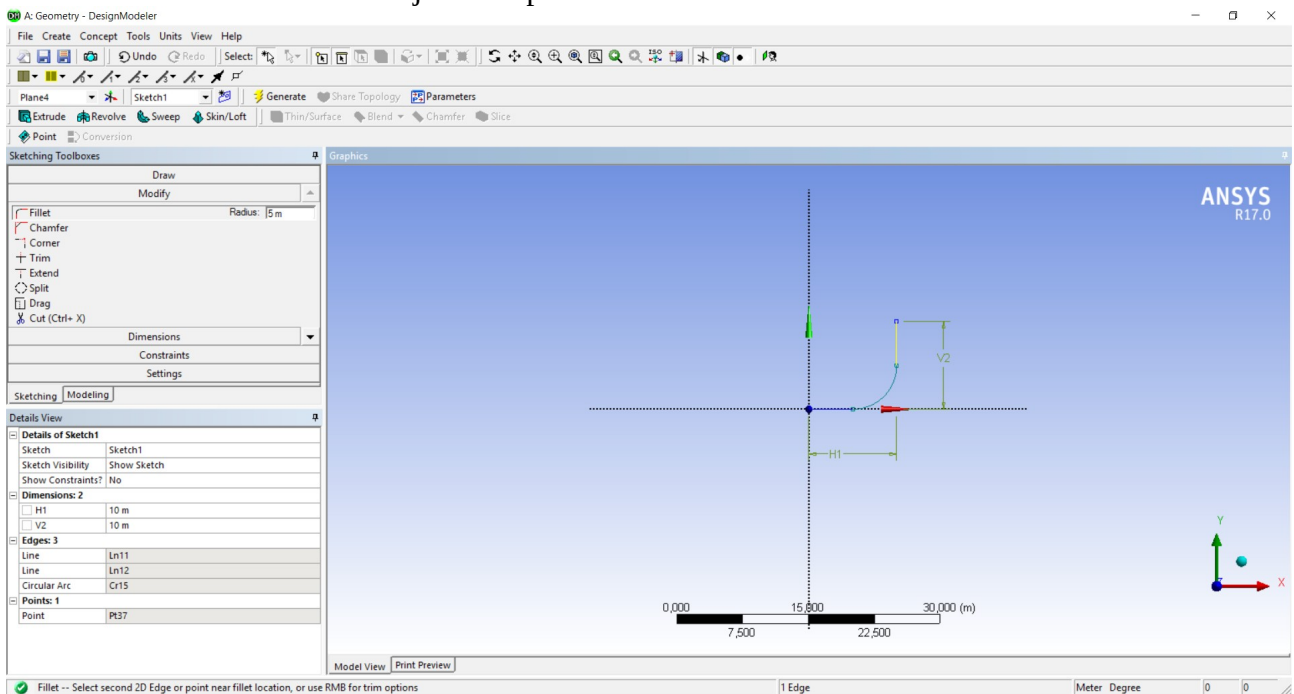


3. Sketching – Dimensions – General



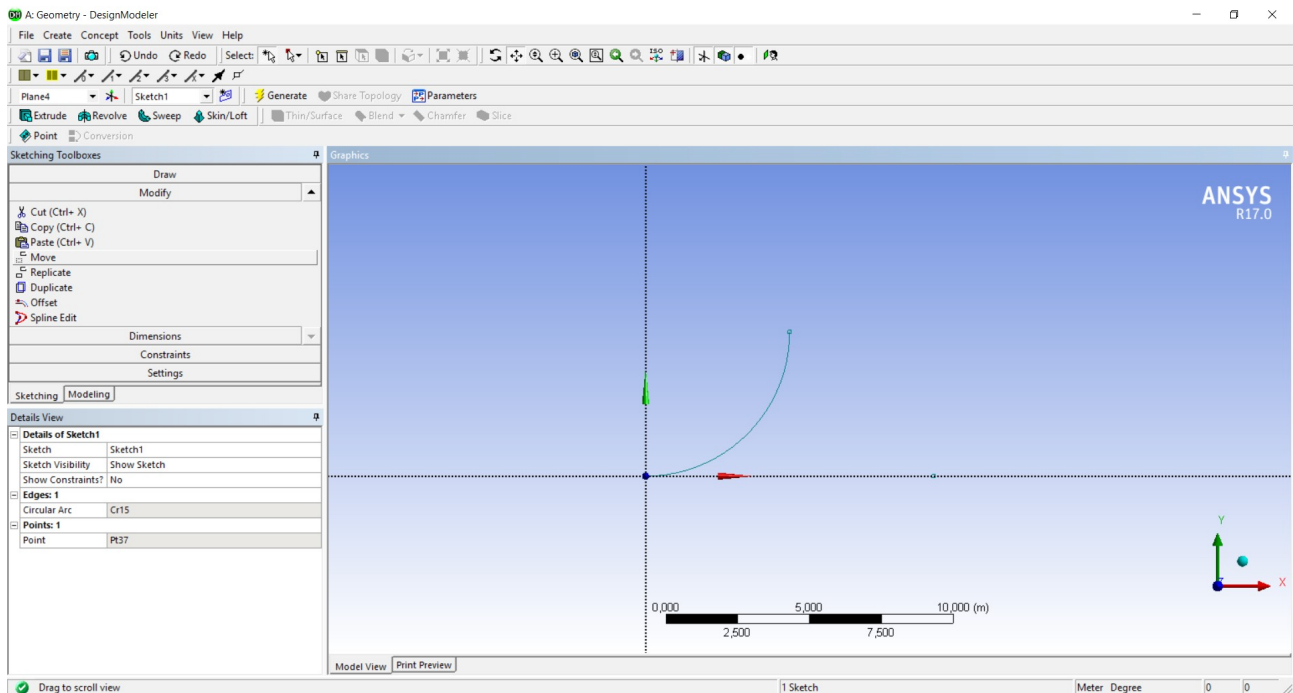
4. Sketching - Modify - Fillet

Colocar em Radius o raio do bojo ou do painel referente

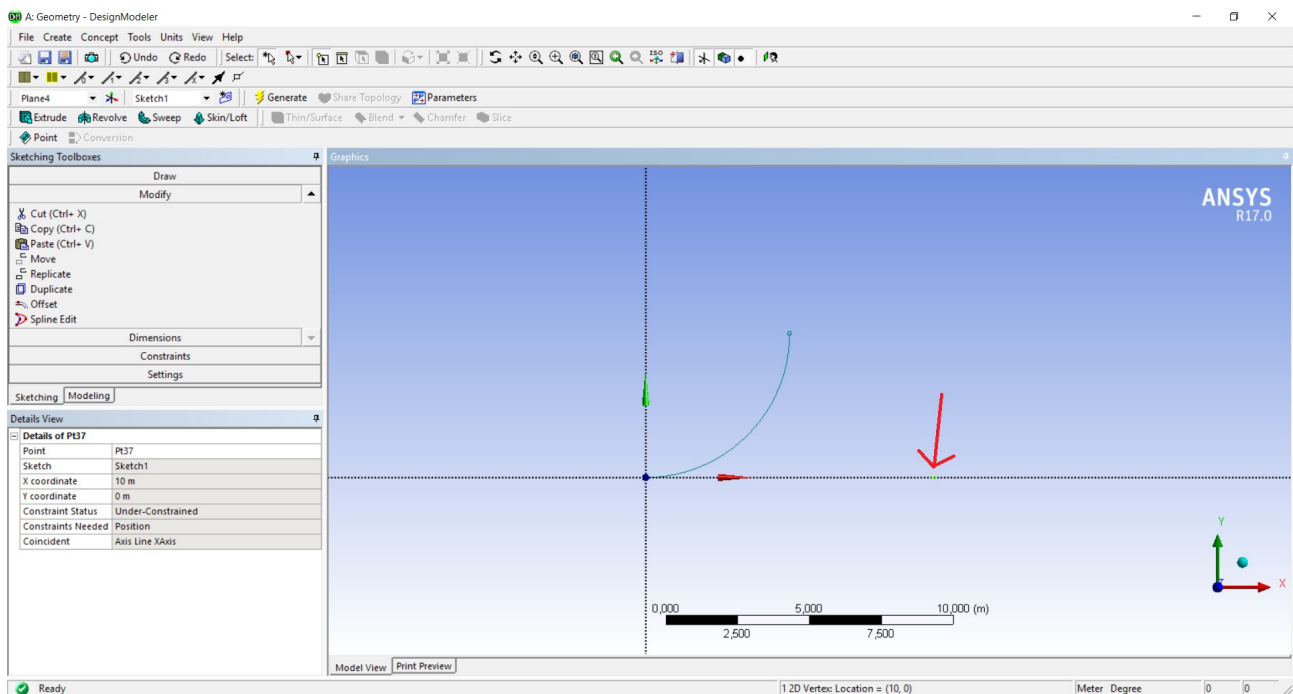


5. Sketching – Modify - Move

Se necessário mover o sketch até o centro do sistema local de coordenadas.

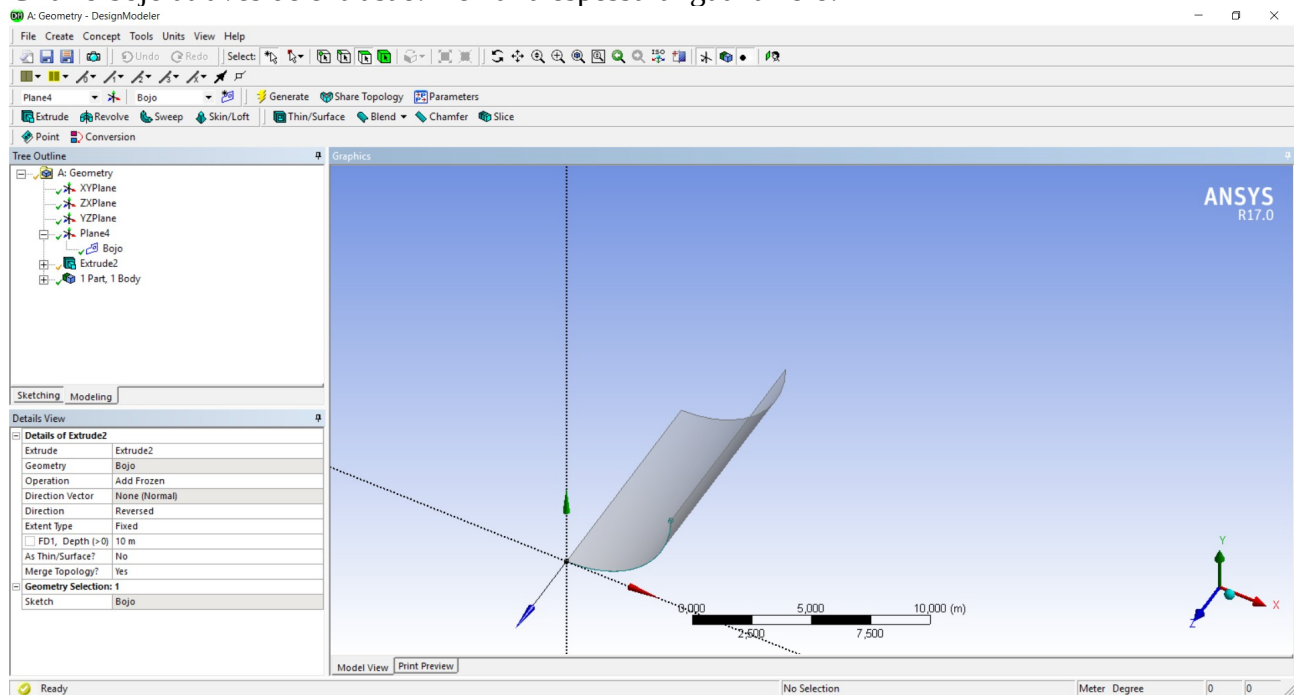


6. Apagar ponto remanescente da operação fillet



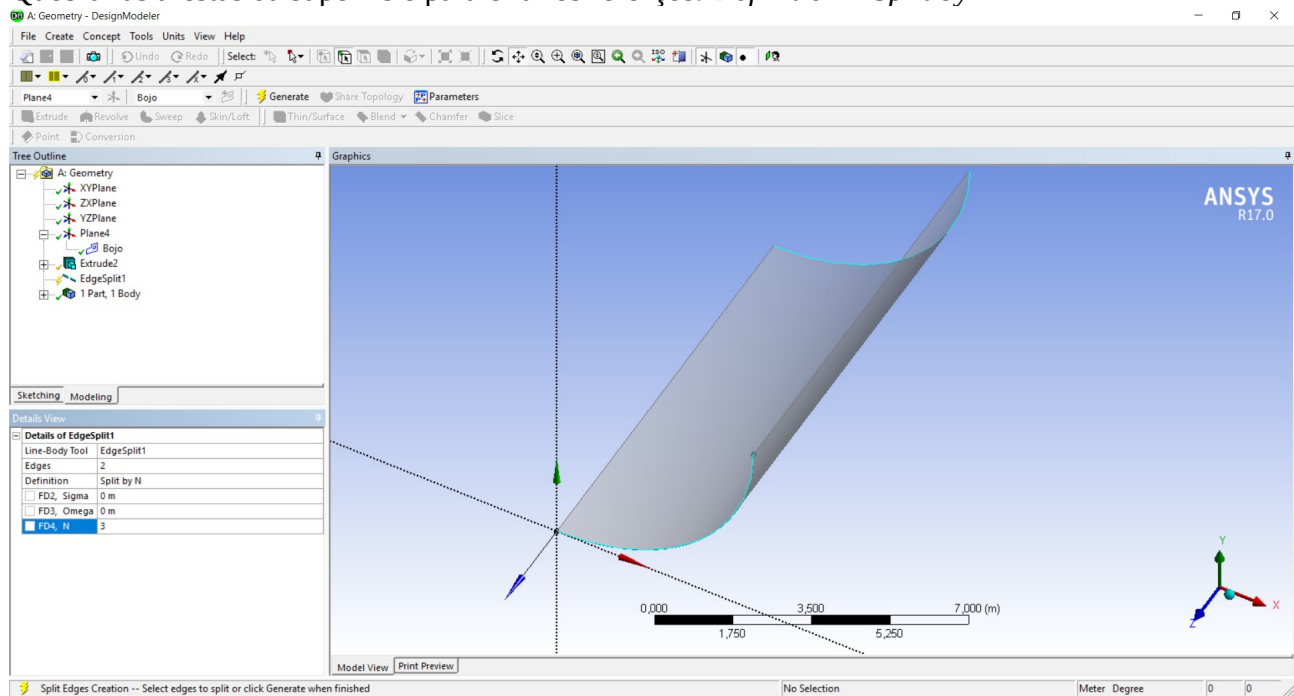
7. Create – Extrude

Criar o bojo através de extrusão. Deixar a espessura igual a zero.



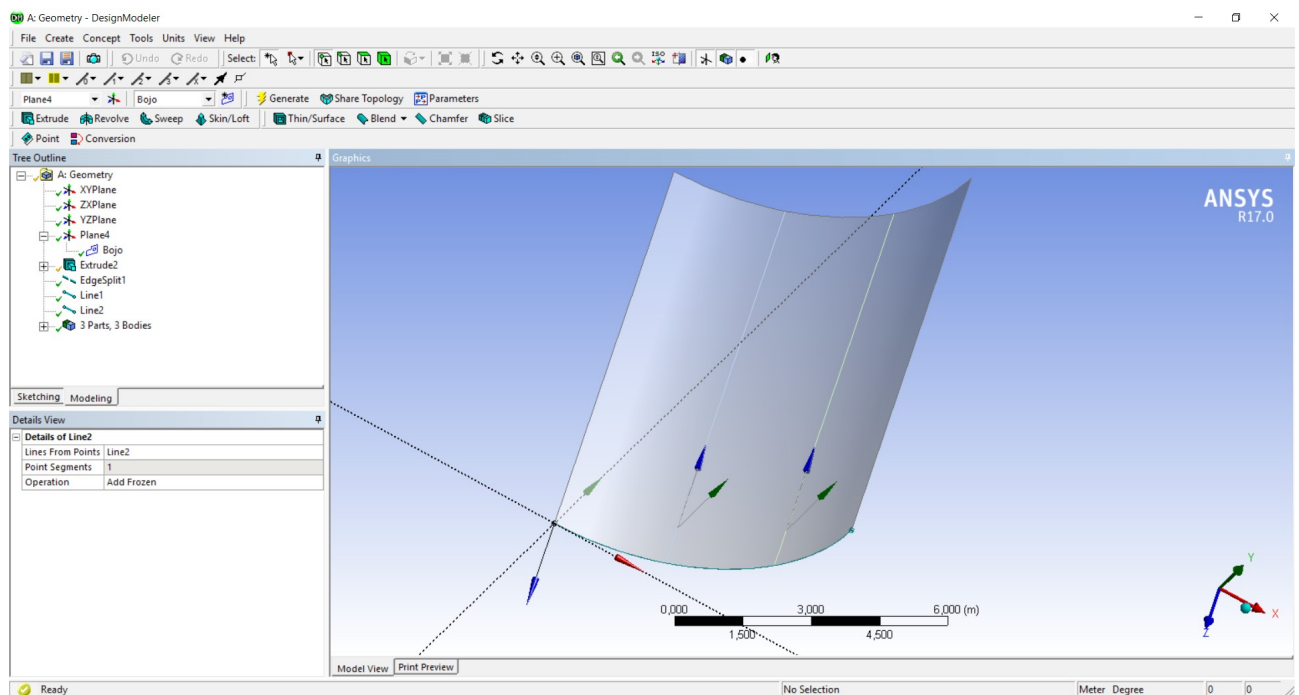
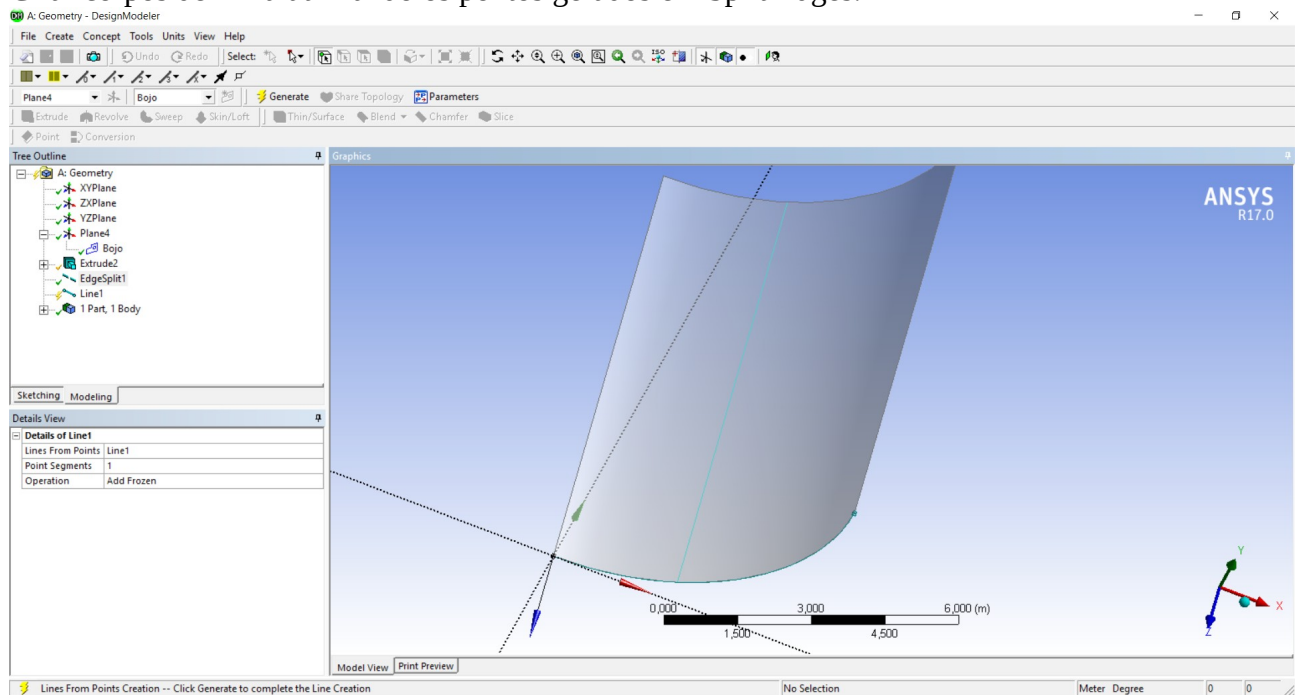
8. Concept – Split Edges

Quebrar as arestas da superfície para criar os reforços. *Definition – Split by N*

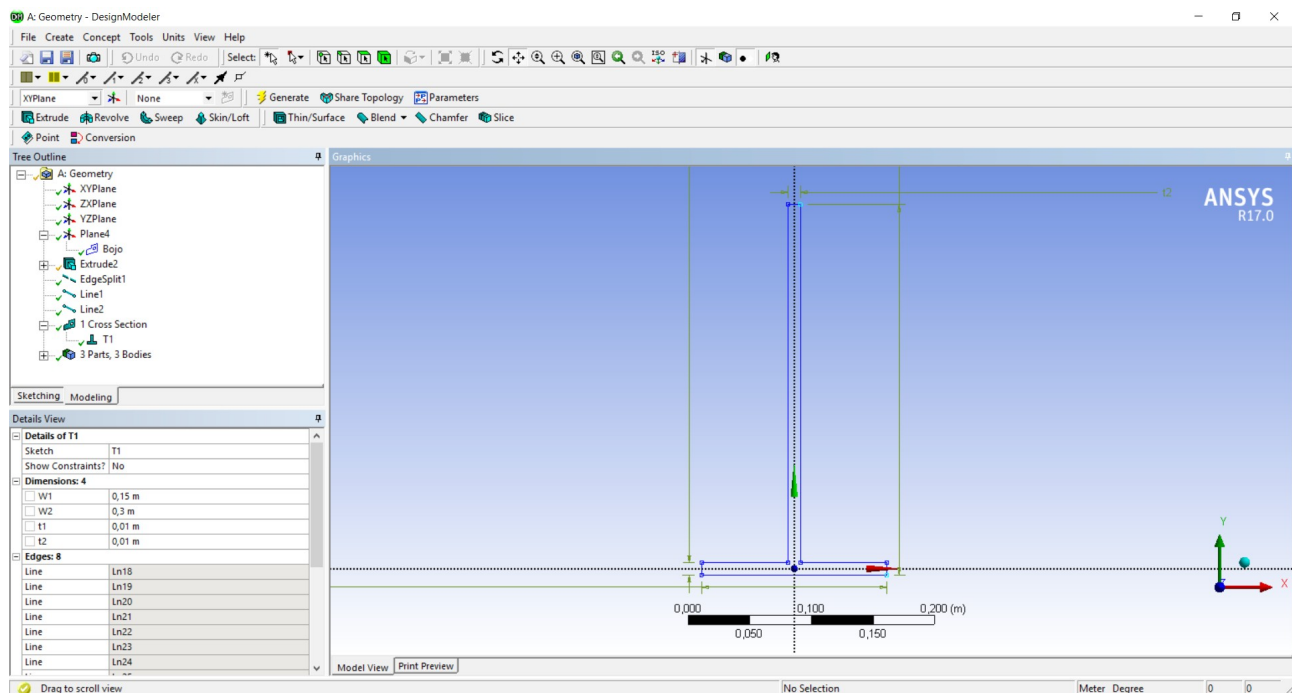


9. Concept – Lines From Points

Criar corpos de linha utilizando os pontos gerados em Split Edges.

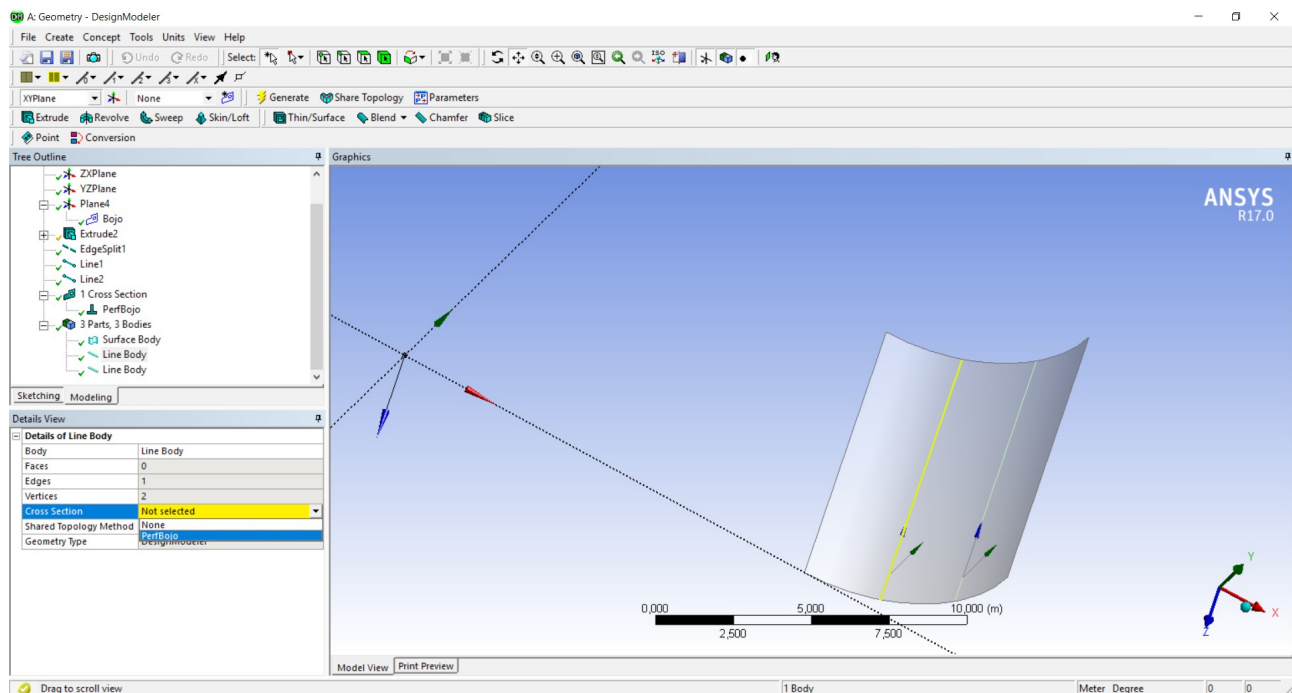


10. Concept – Cross Section

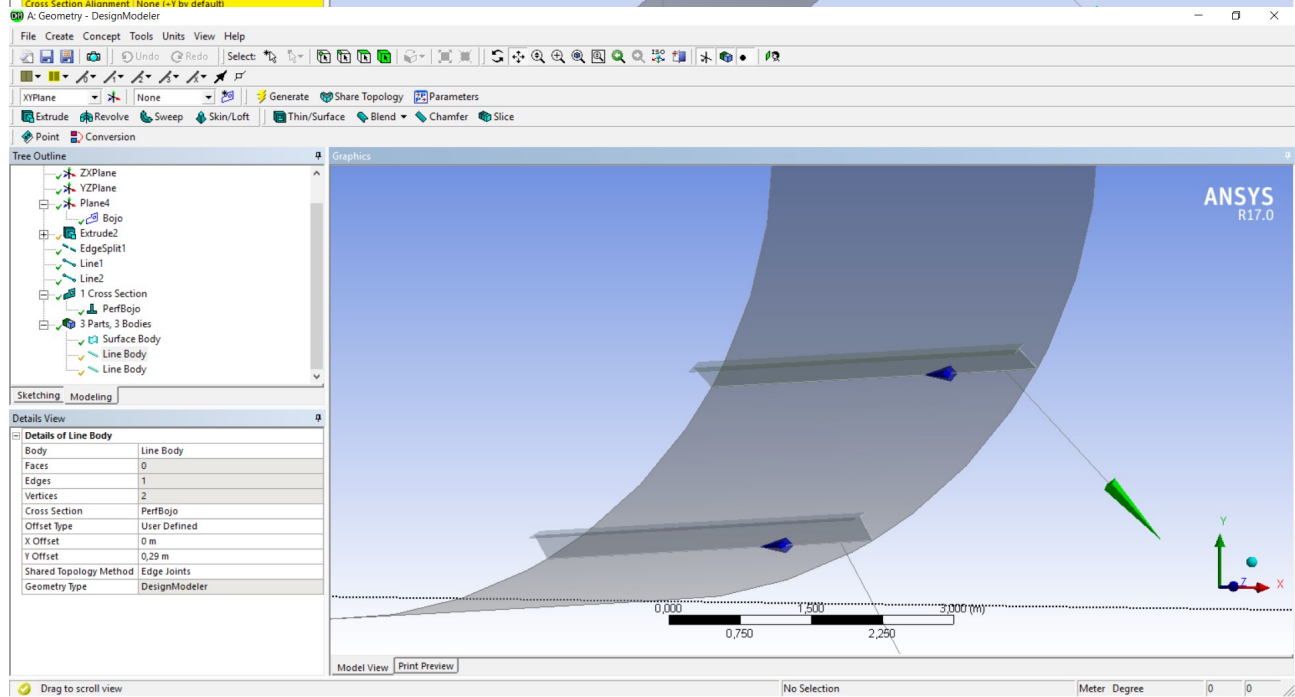
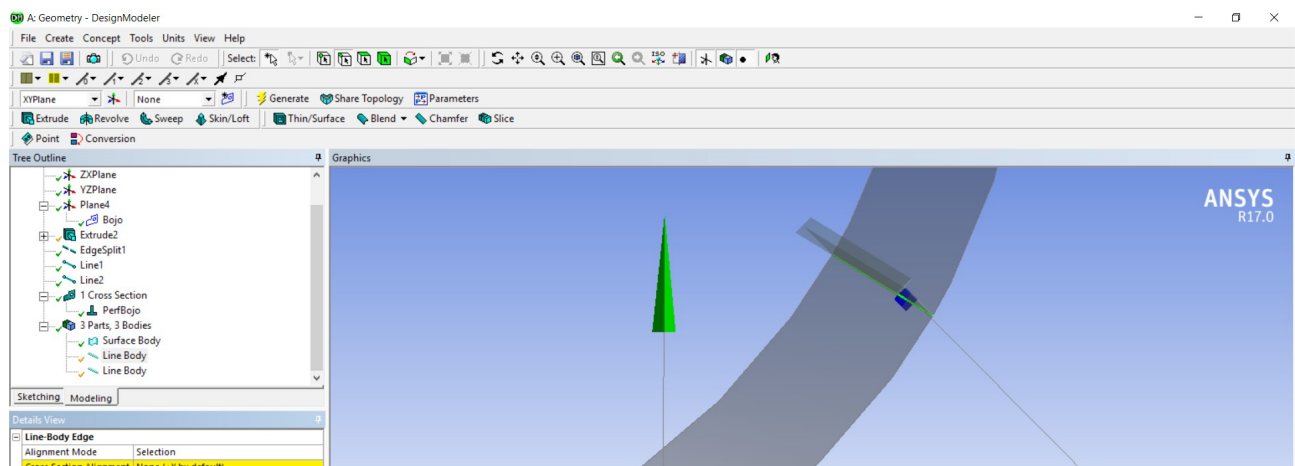
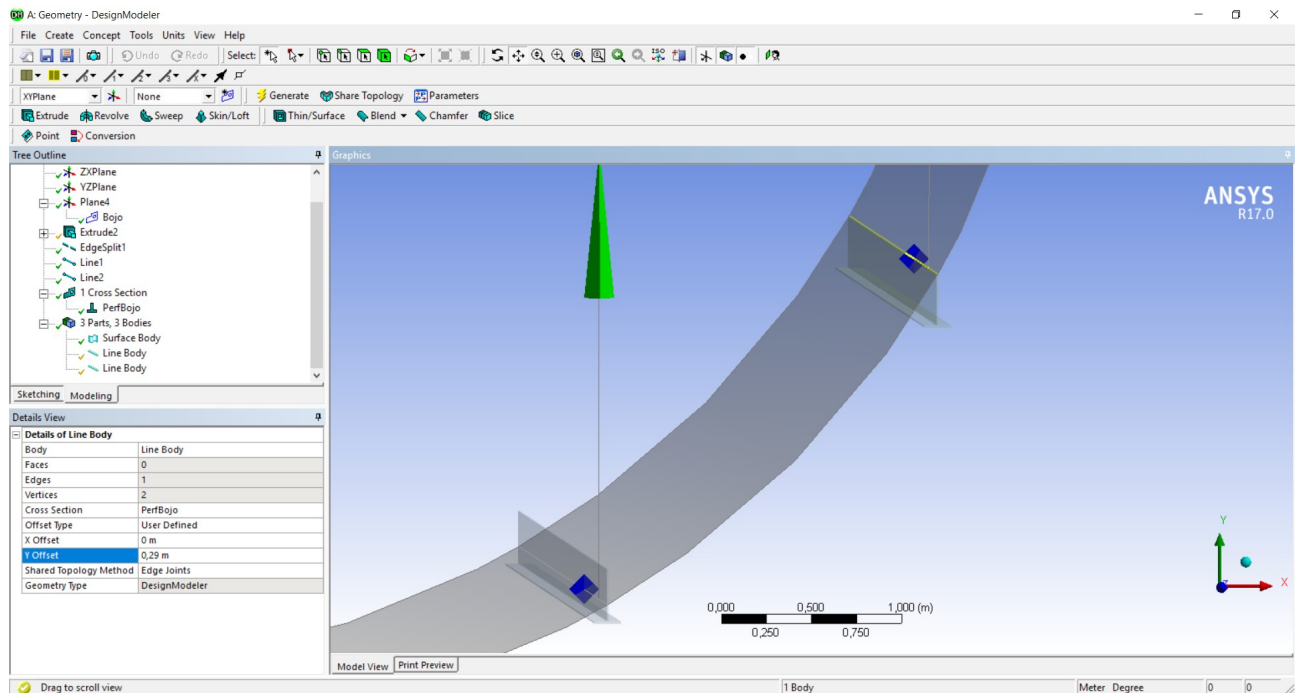


11. Clicar no corpo de linha e selecionar Cross Section

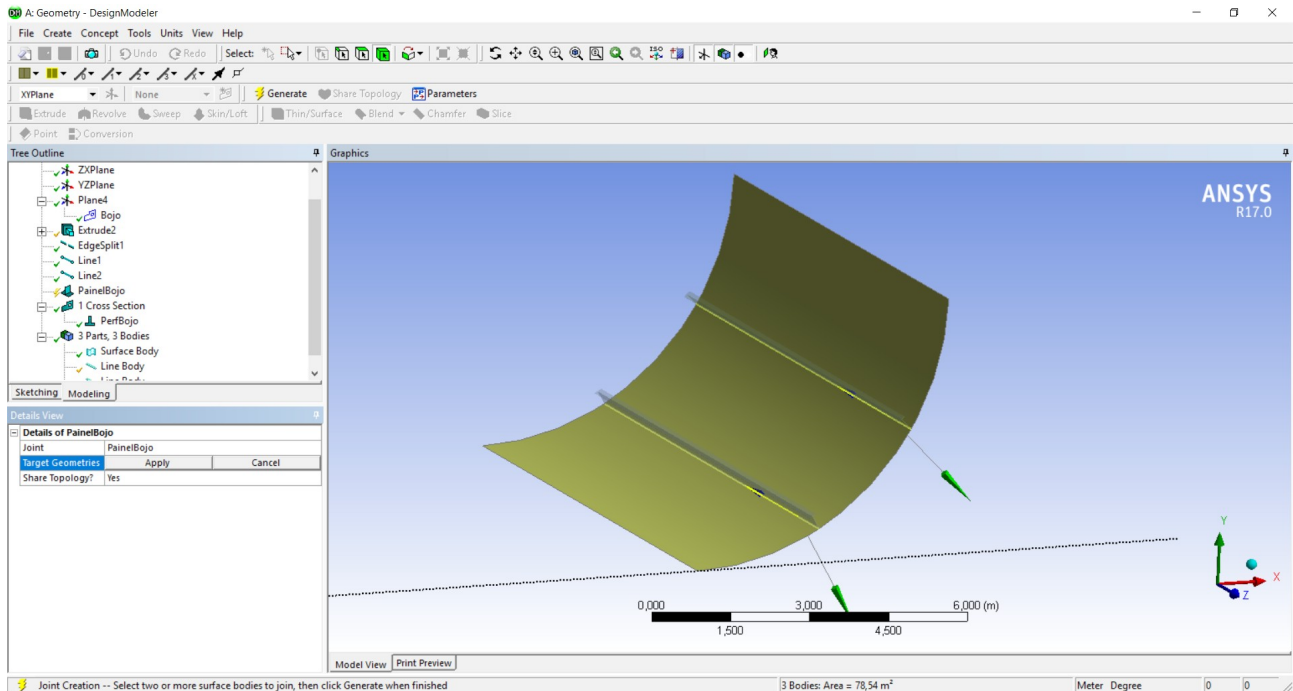
Em Offset Type selecionar User Defined e alinhar o perfil para a posição correta.



12. Ativar Cross Section Solids em View para verificar alinhamento. Clicar sobre cada corpo de linha e rotacionar para o ângulo certo



13. Tools – Joint



14. Selecionar todas as Geometrias com o direito e Clicar em *Form New Part*

