

# Sigma2D

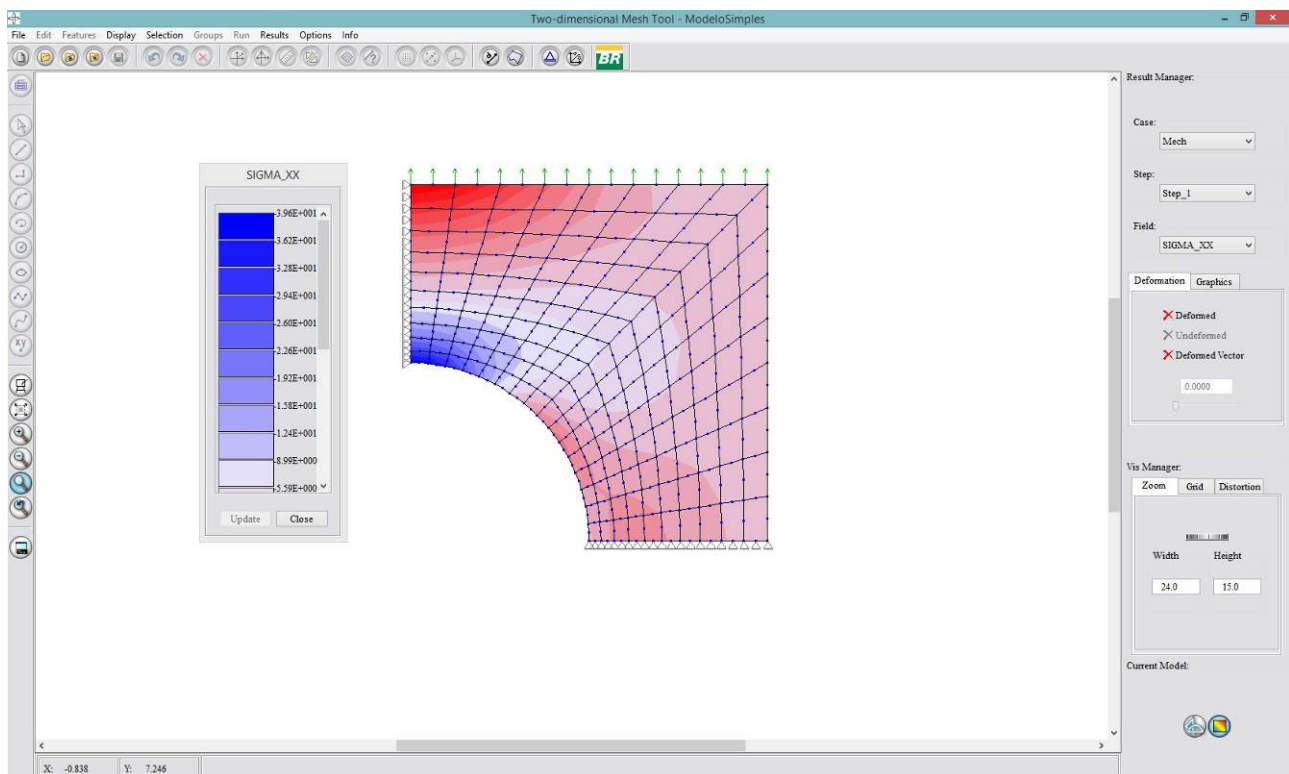
## Tutorial para criação e análise de resultados de um modelo de placa simples.

Novembro 2015

<http://www.tecgraf.puc-rio.br/mvgeo>

Este arquivo: CursoMVG-02-ModeloSimples

Modelo: ModeloSimples



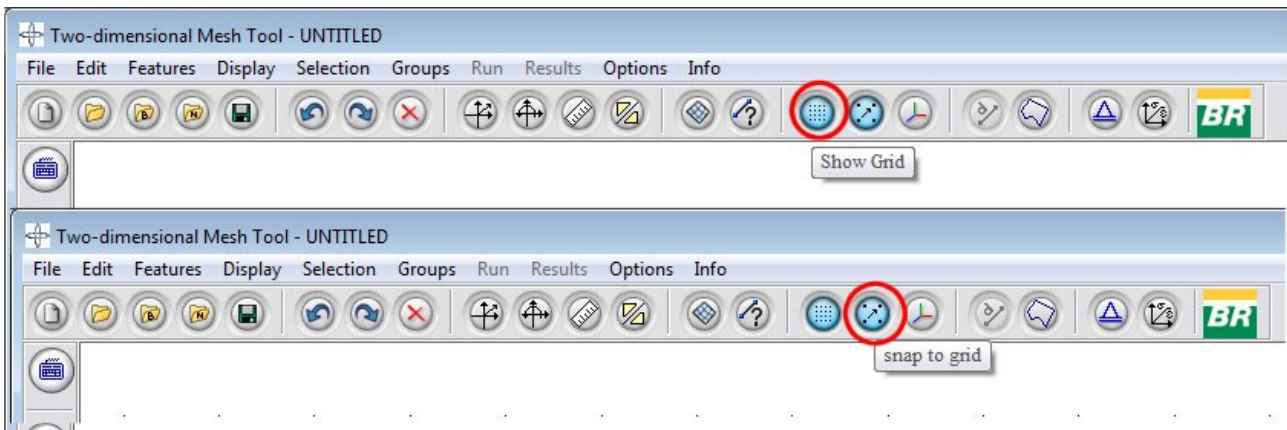


## Tabela de Conteúdo

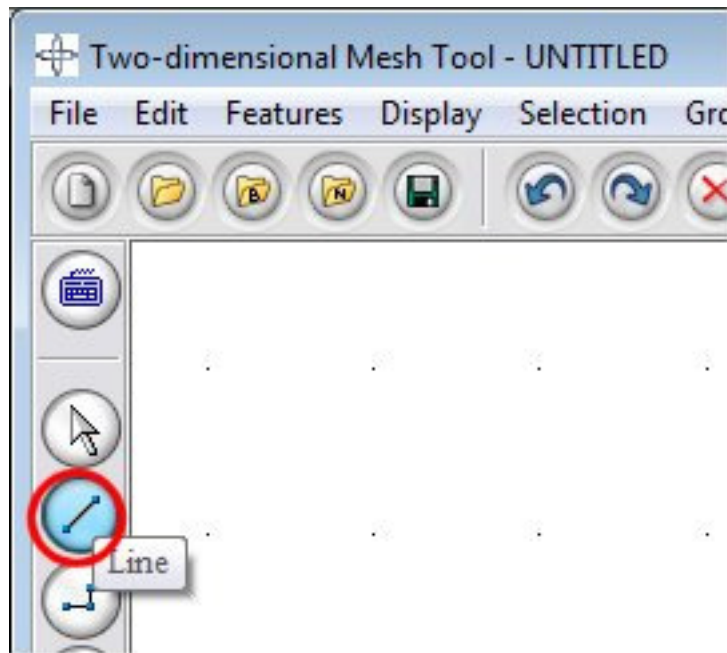
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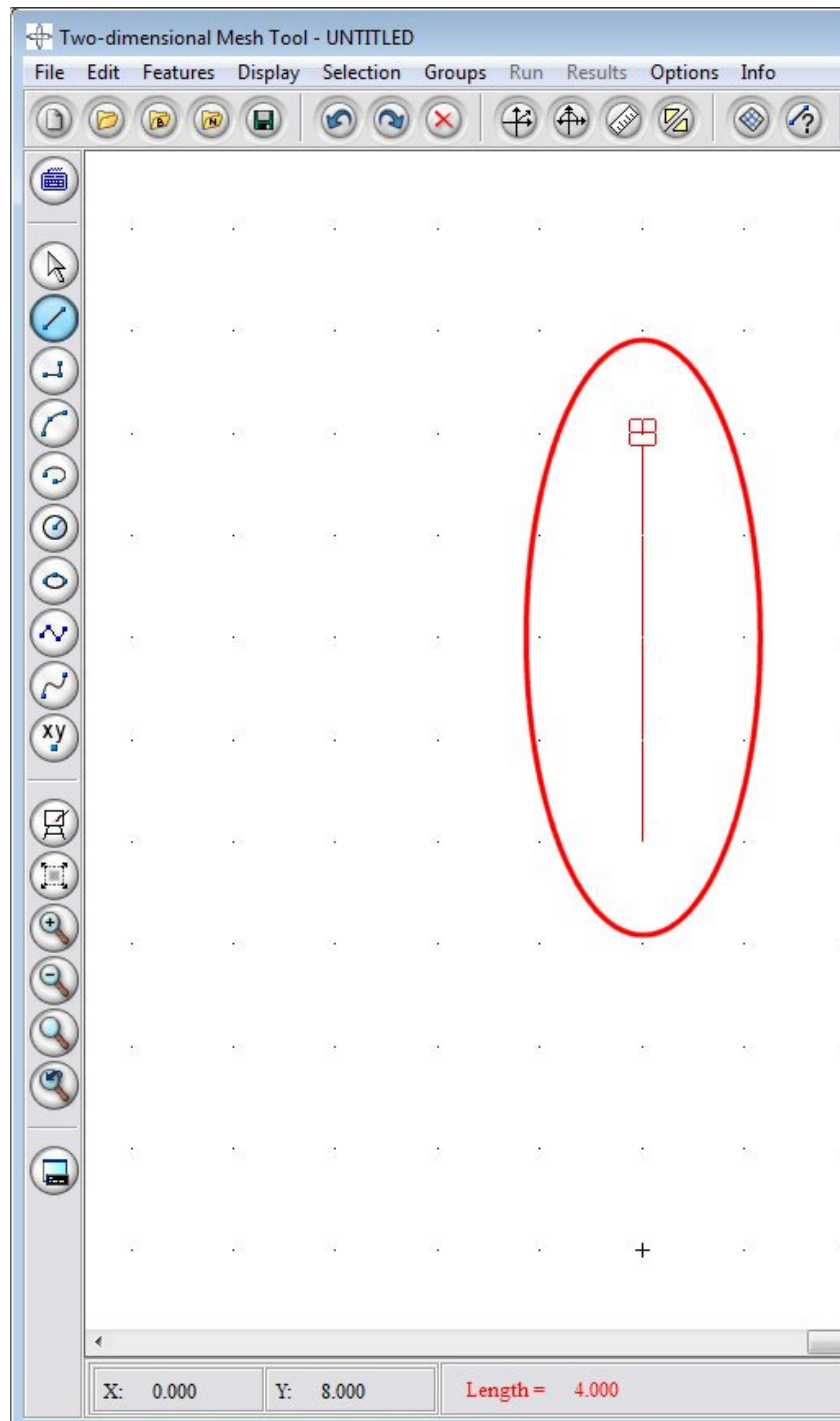
## Ativa o grid de coordenadas



## Botão de inserção de linha

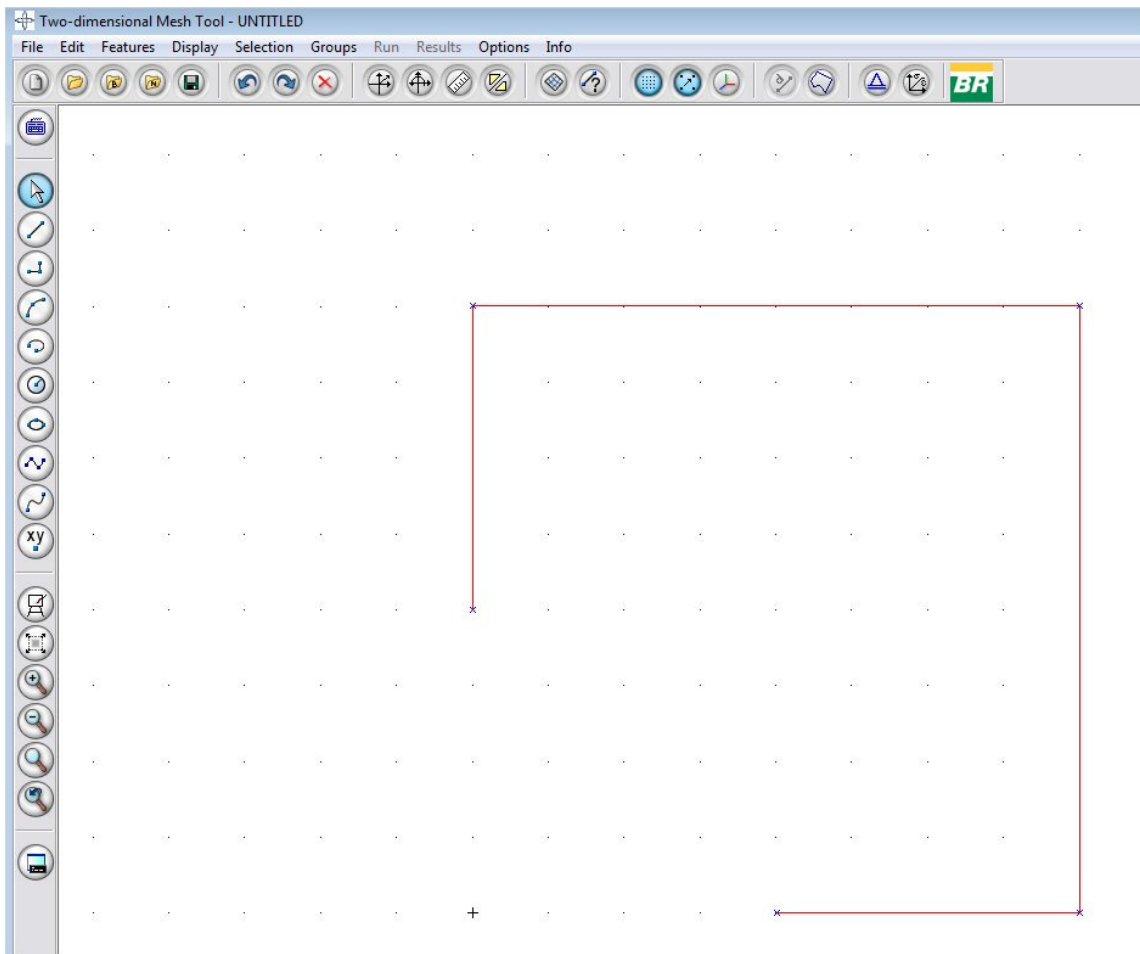


### Inserir linha



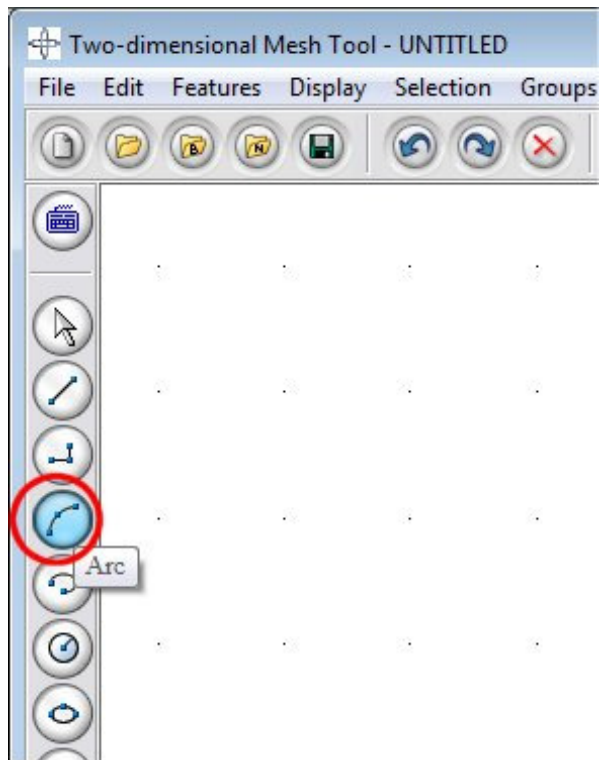


## Inserção das linhas do modelo

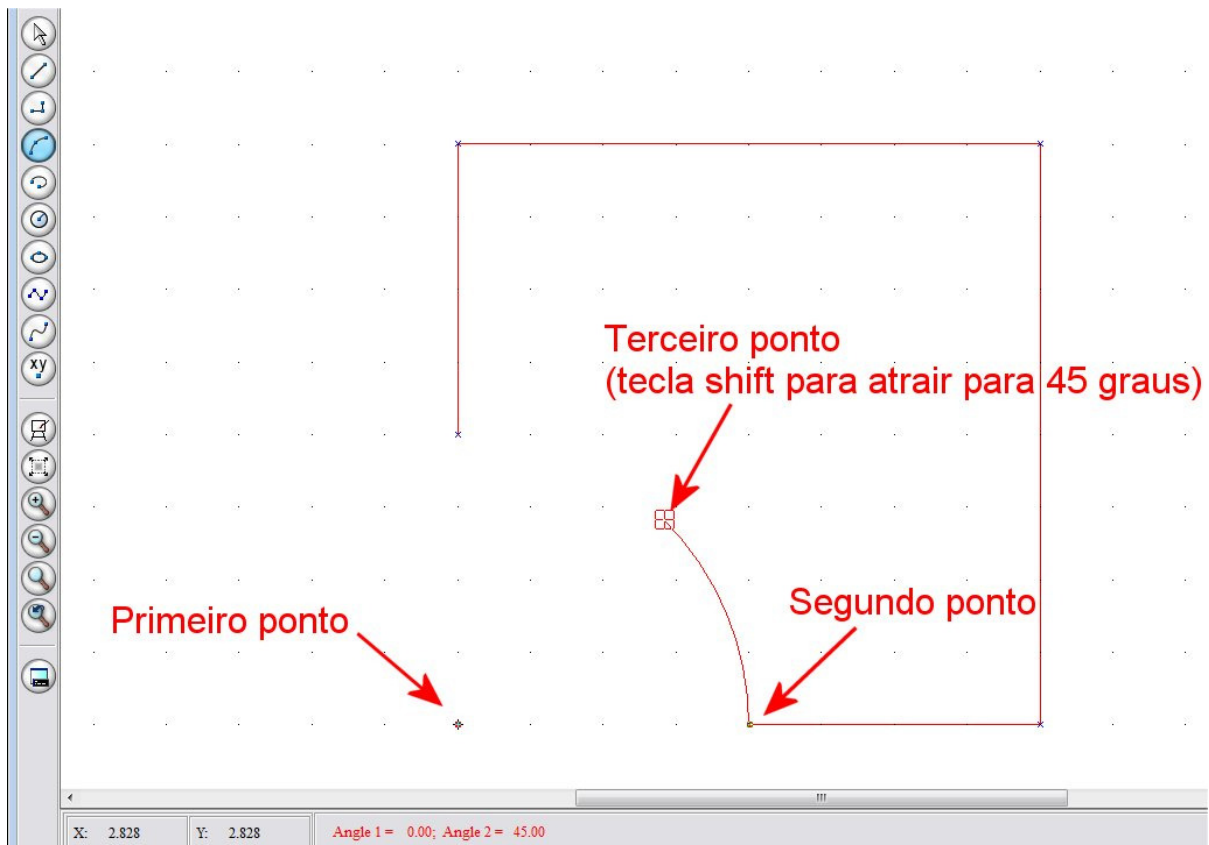




## Botão de inserção de arco

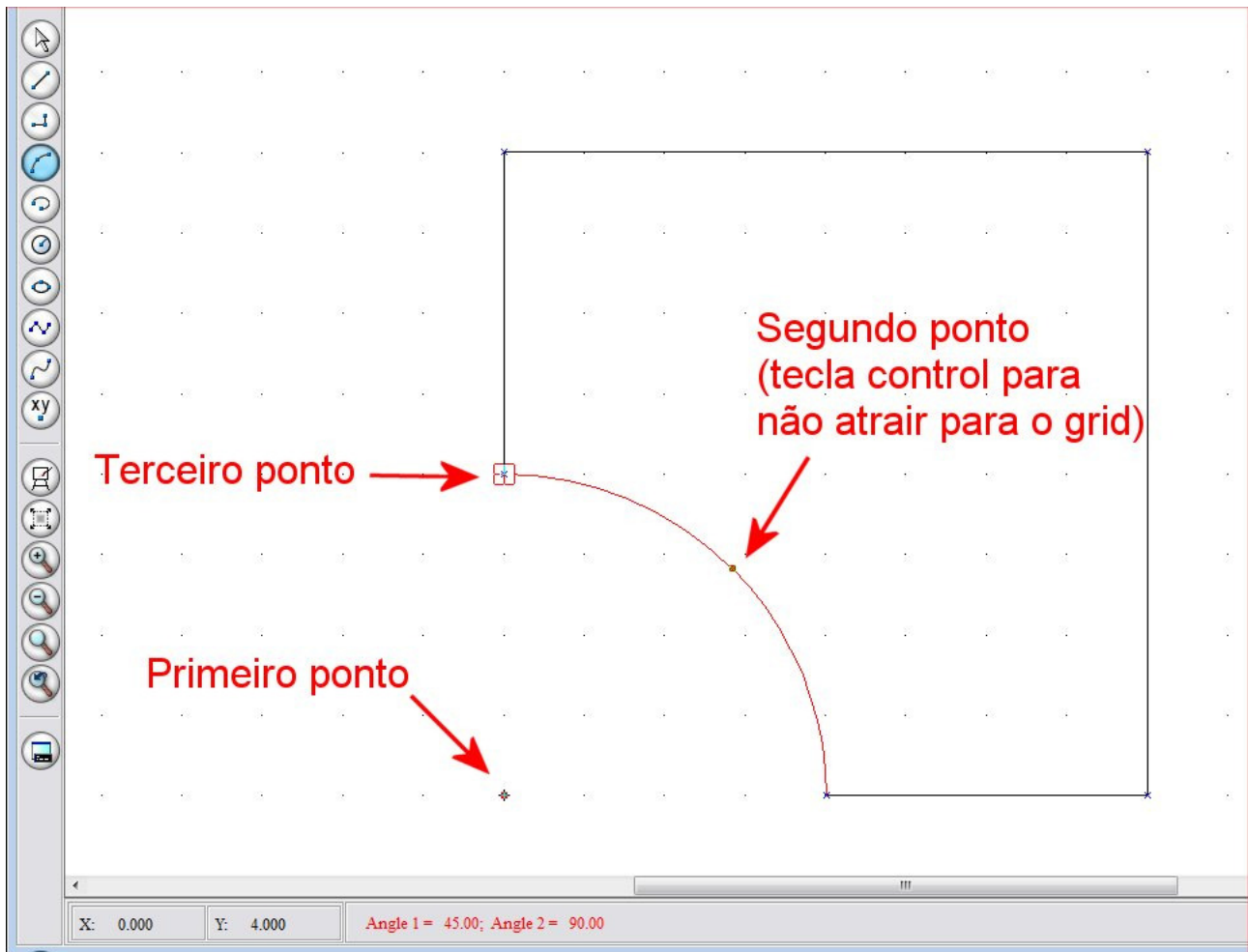


## Inserção de arco no modelo



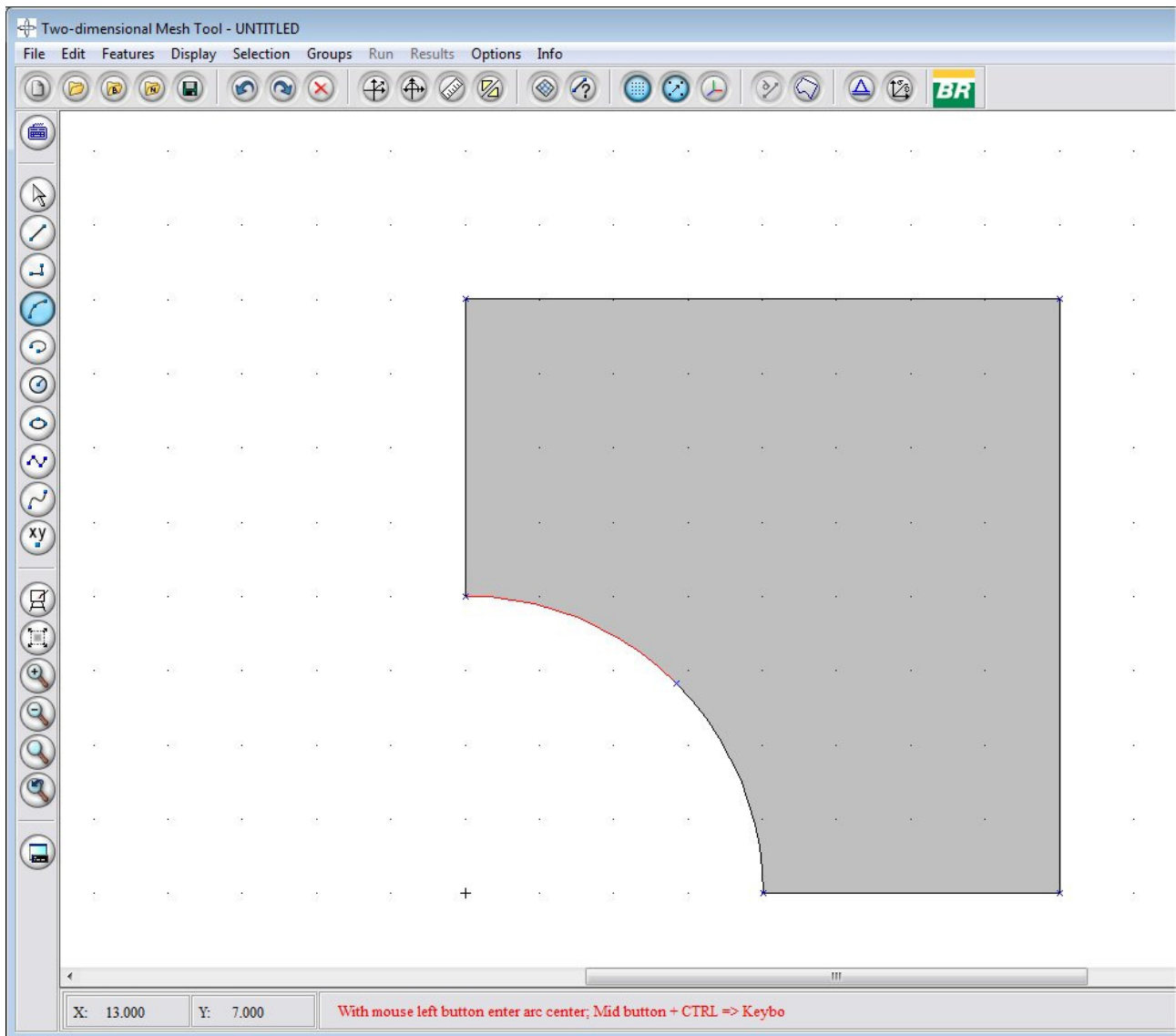


## Inserção de segundo arco no modelo





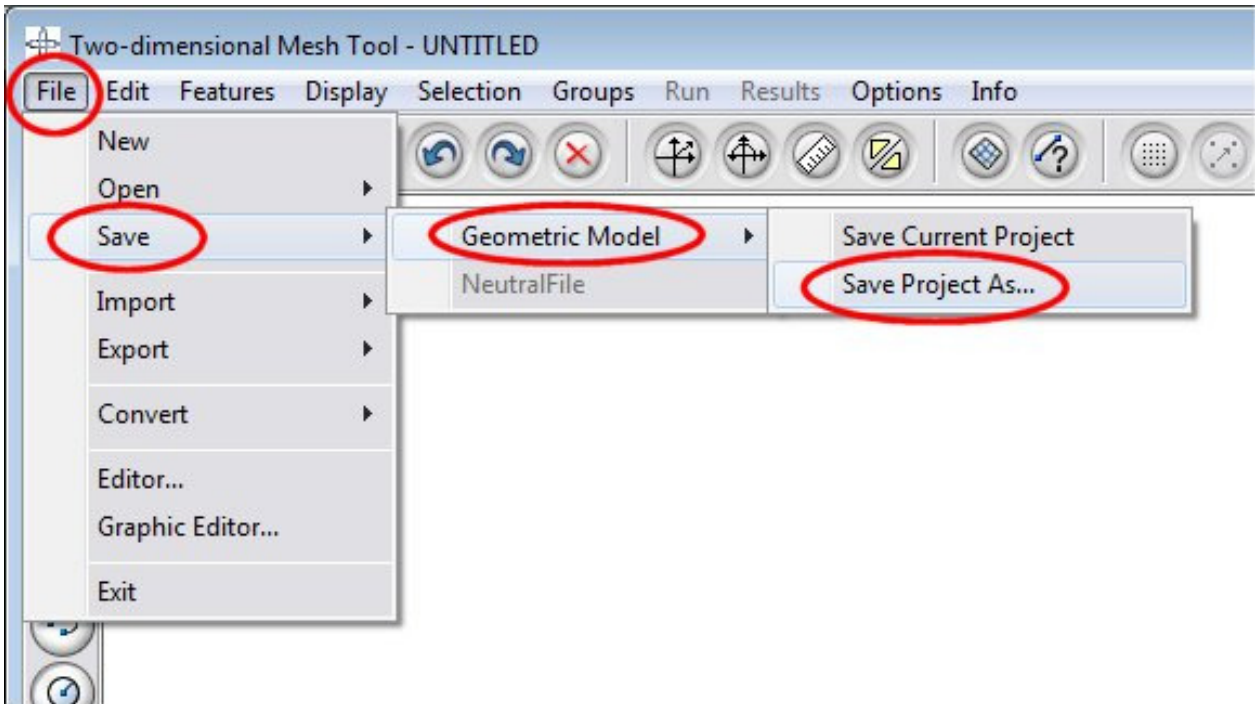
## Criação de região após encontro de arco e linha



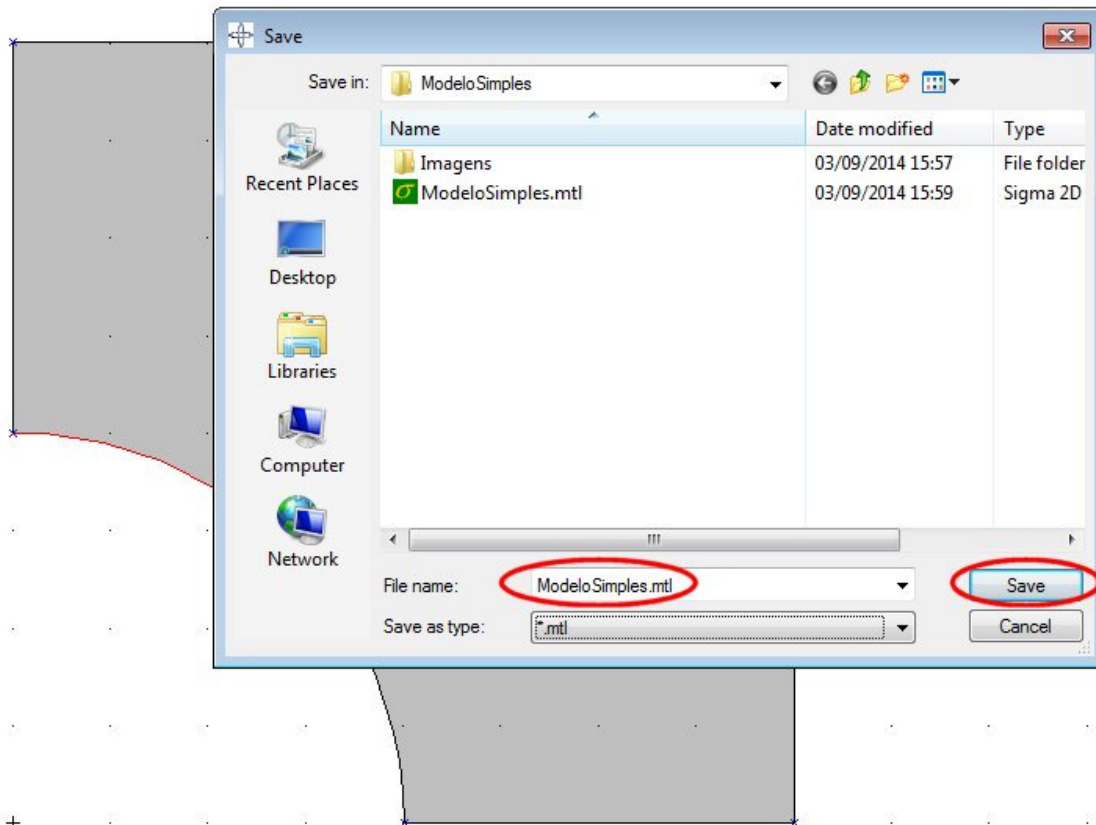




### Salva projeto com um nome (comando "Save Project As... ")

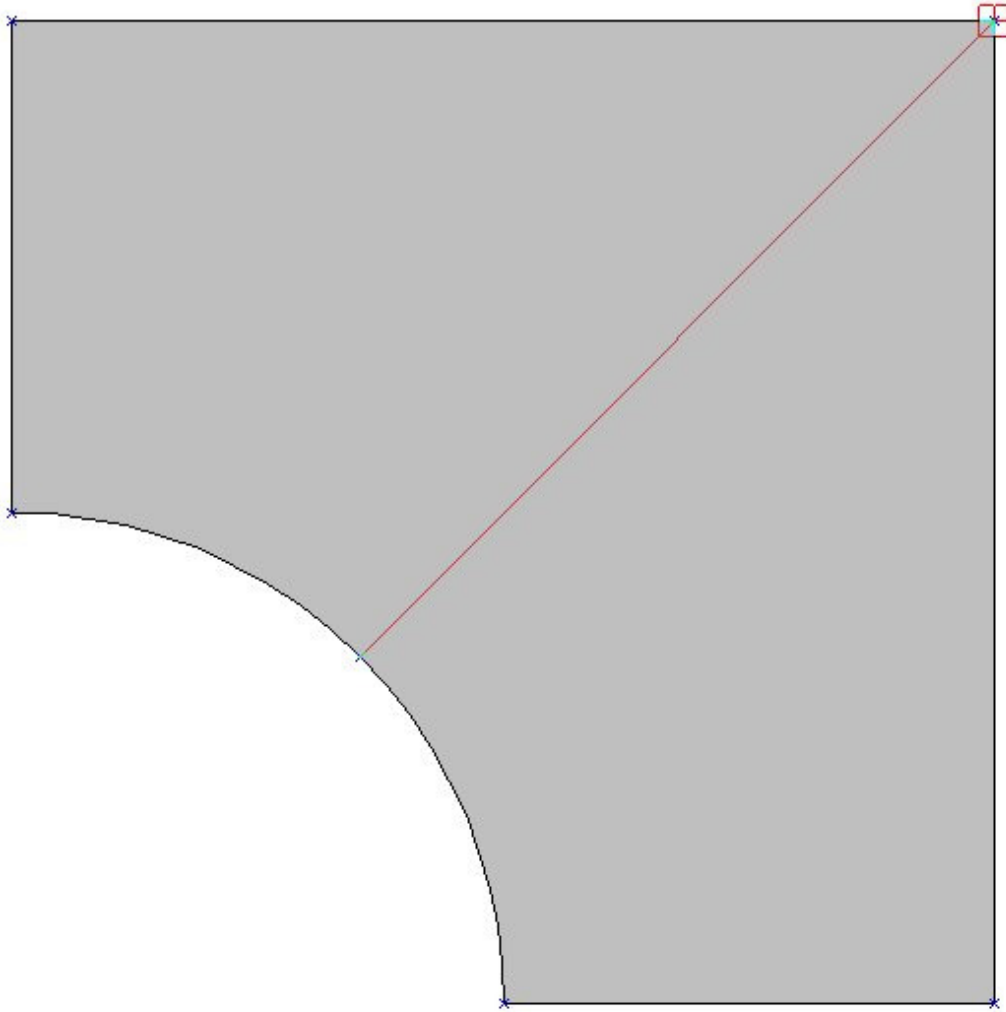


### Salva projeto com um nome (comando "Save Project As... ")



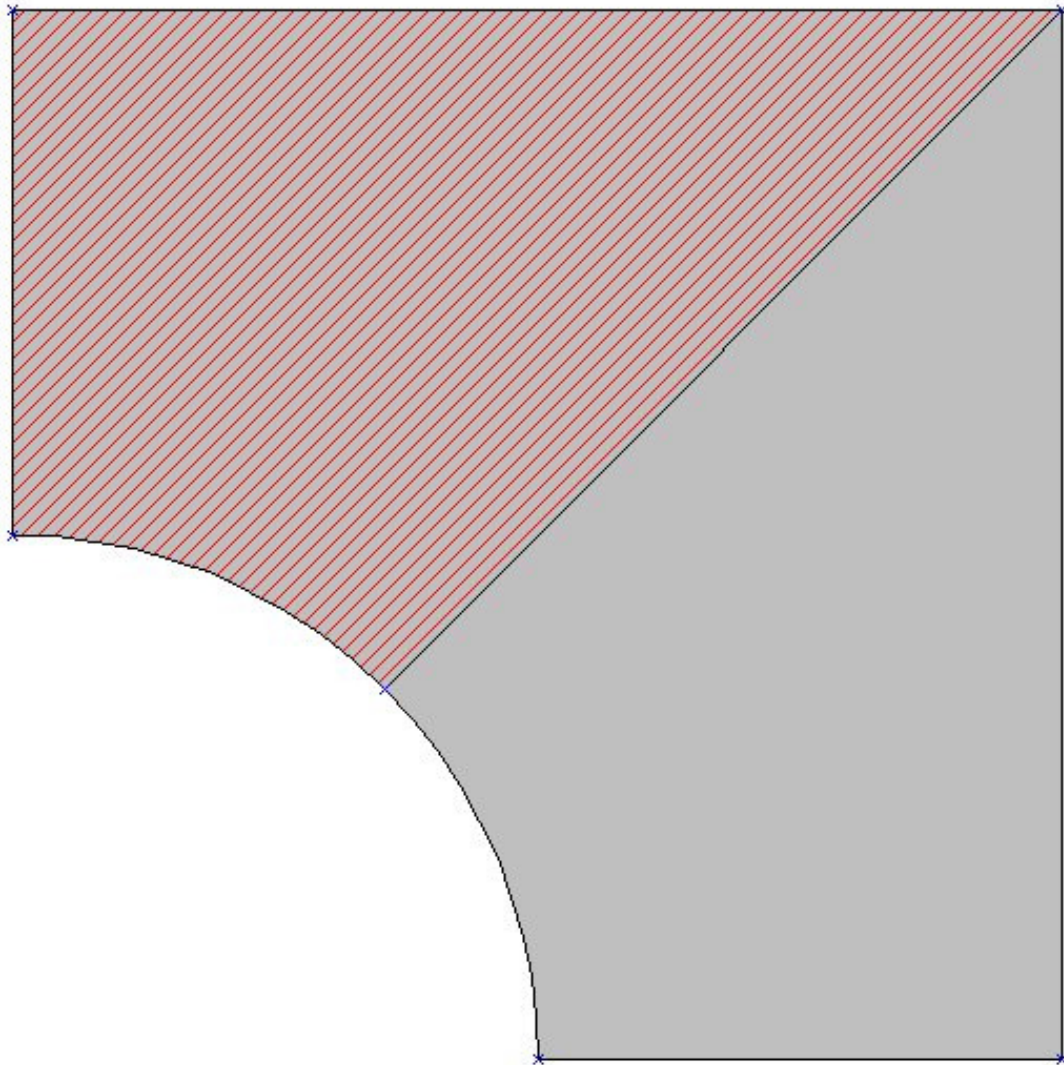


### Criar linha que divide a região



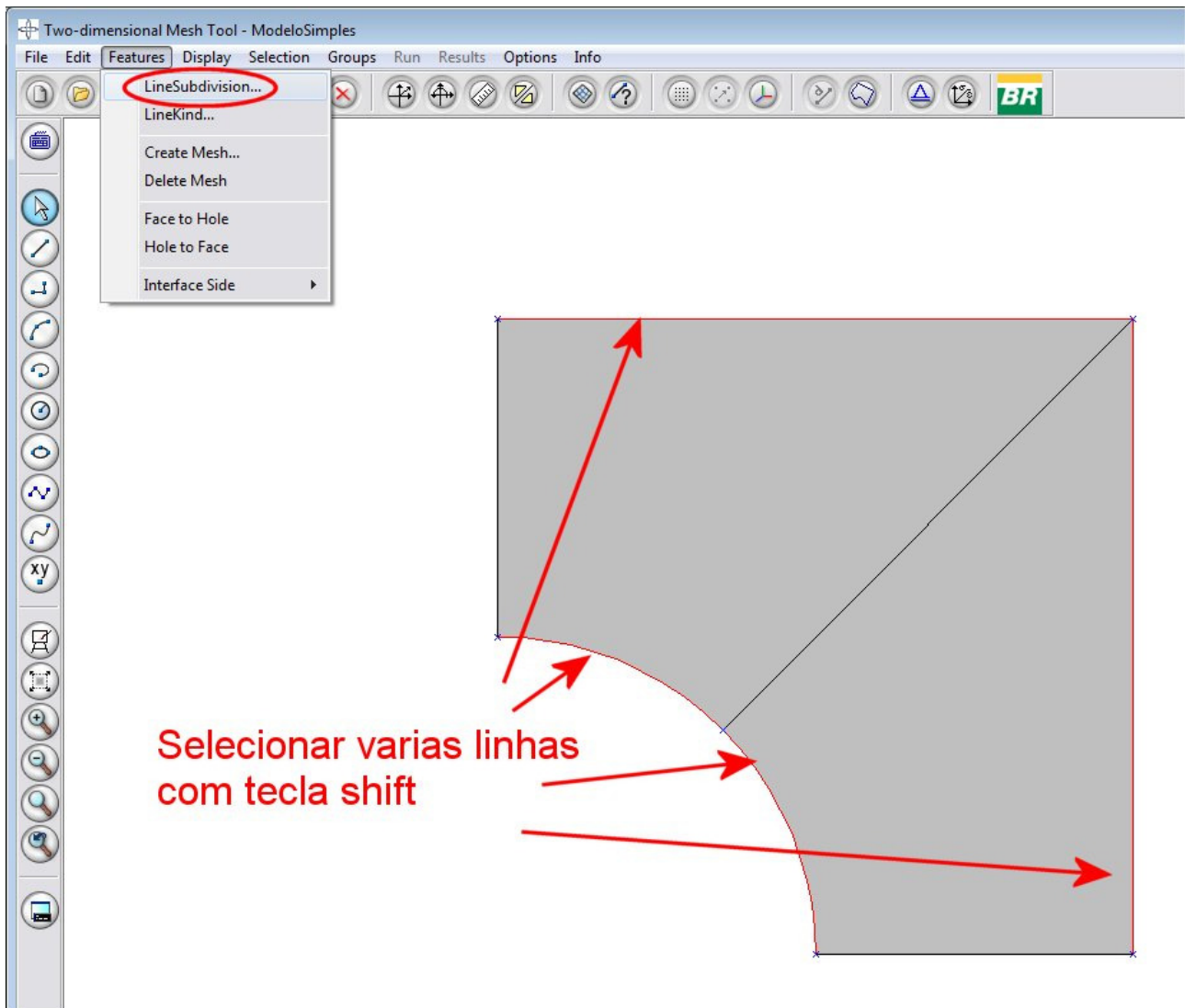


### Região dividida automaticamente



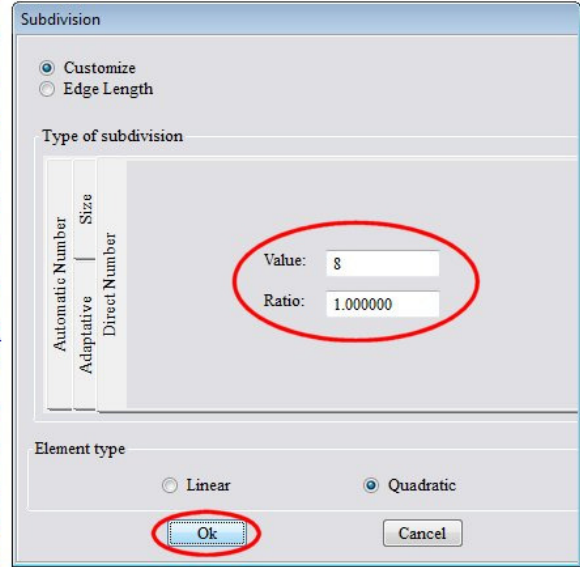
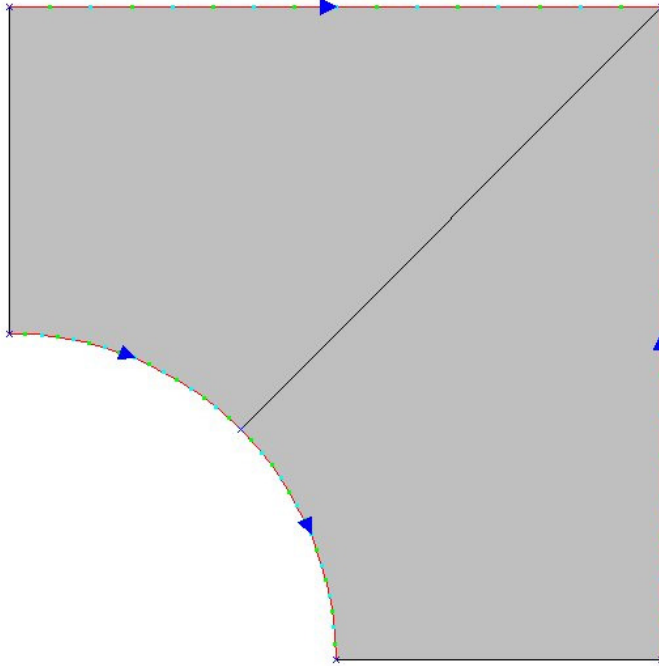


## Subdividir curvas

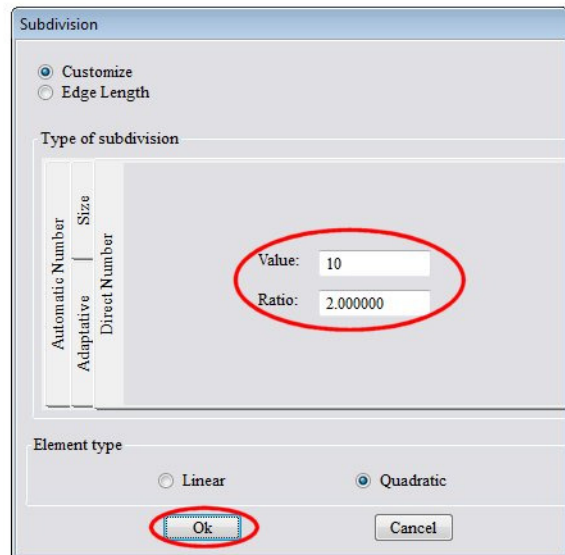
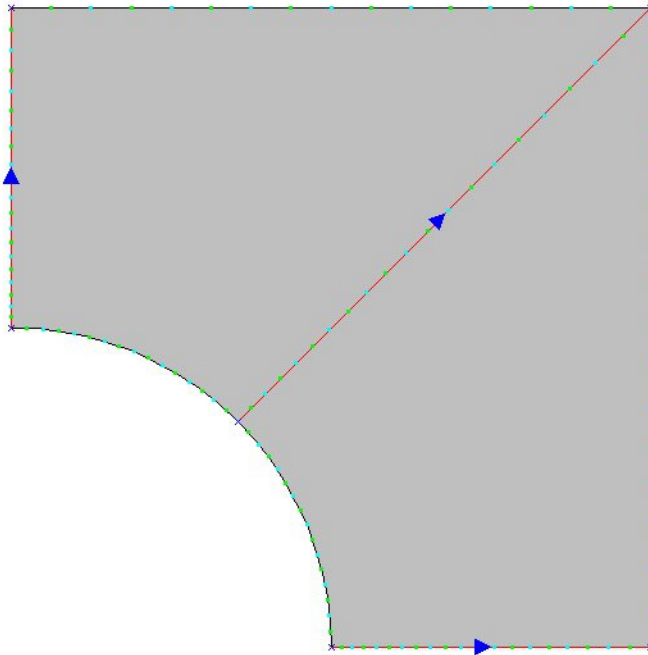




### Aplicar subdivisão de curvas

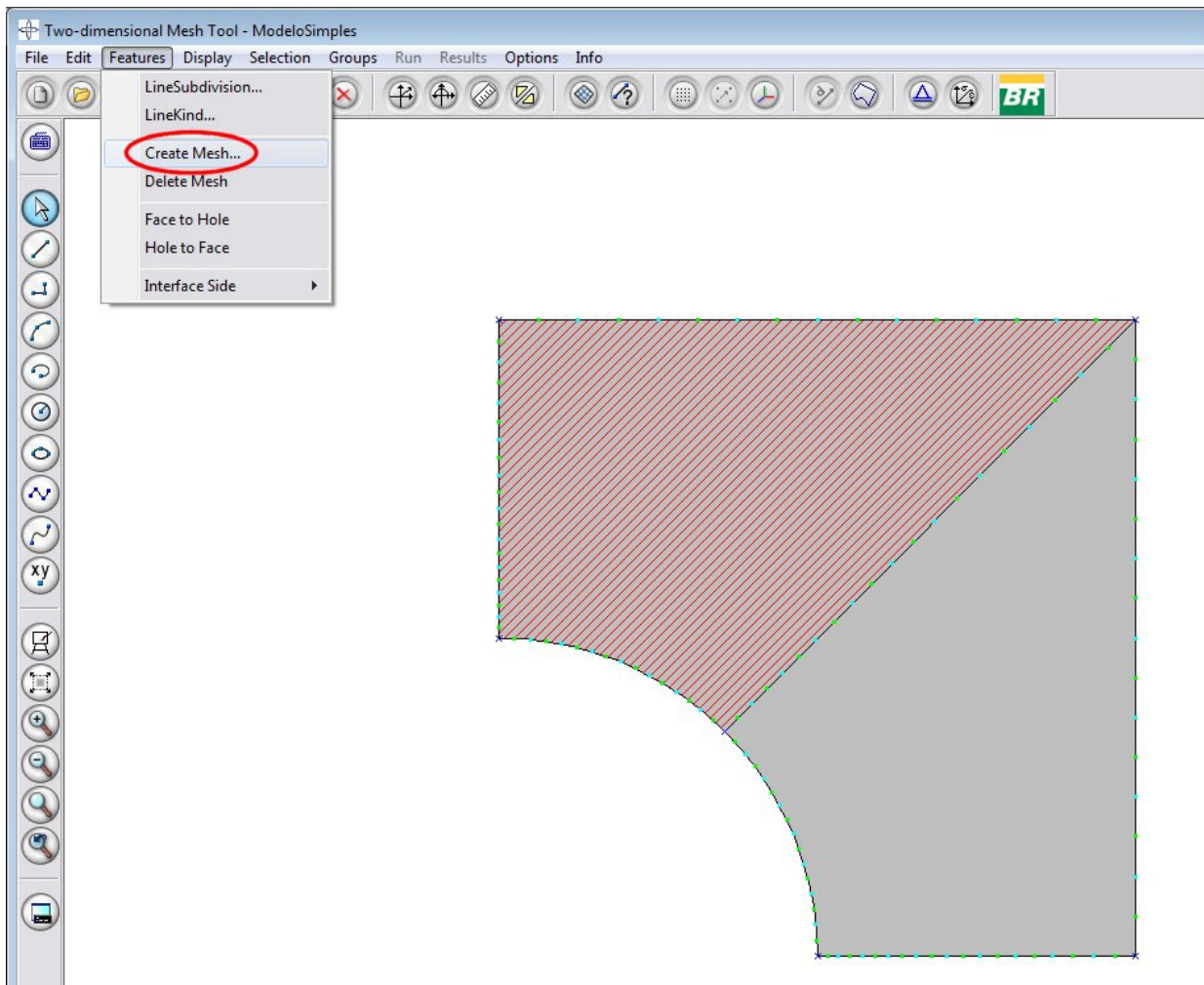


### Aplicar subdivisão nas outras curvas do modelo

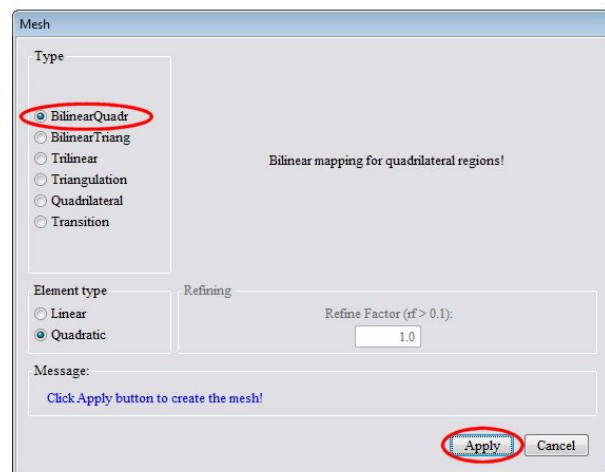
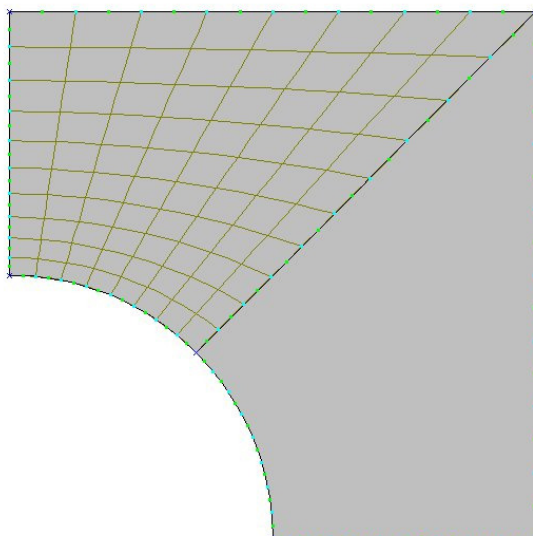




## Procedimento para criar malha

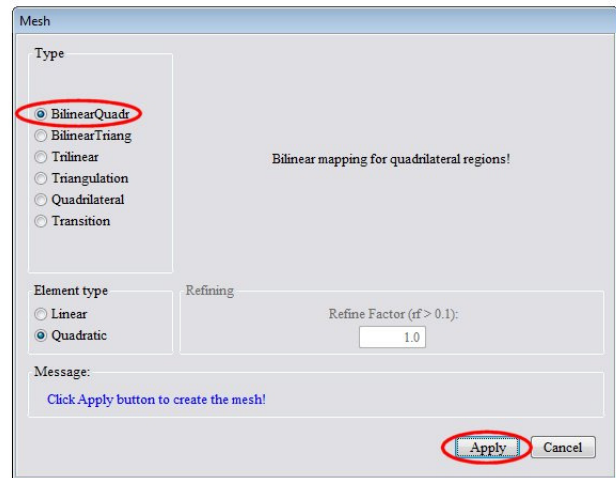
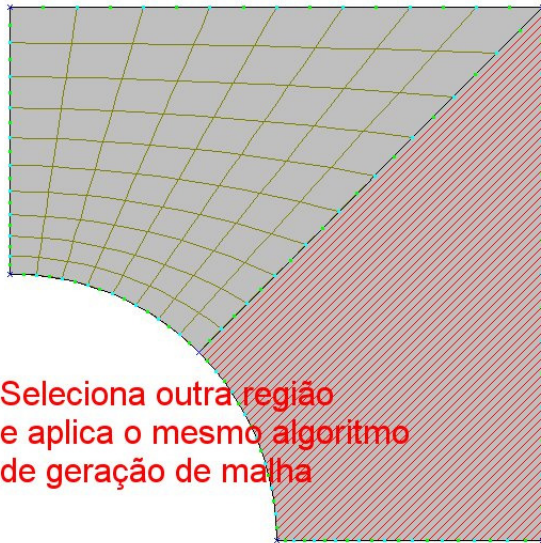


## Aplicação de malha bilinear quadrática

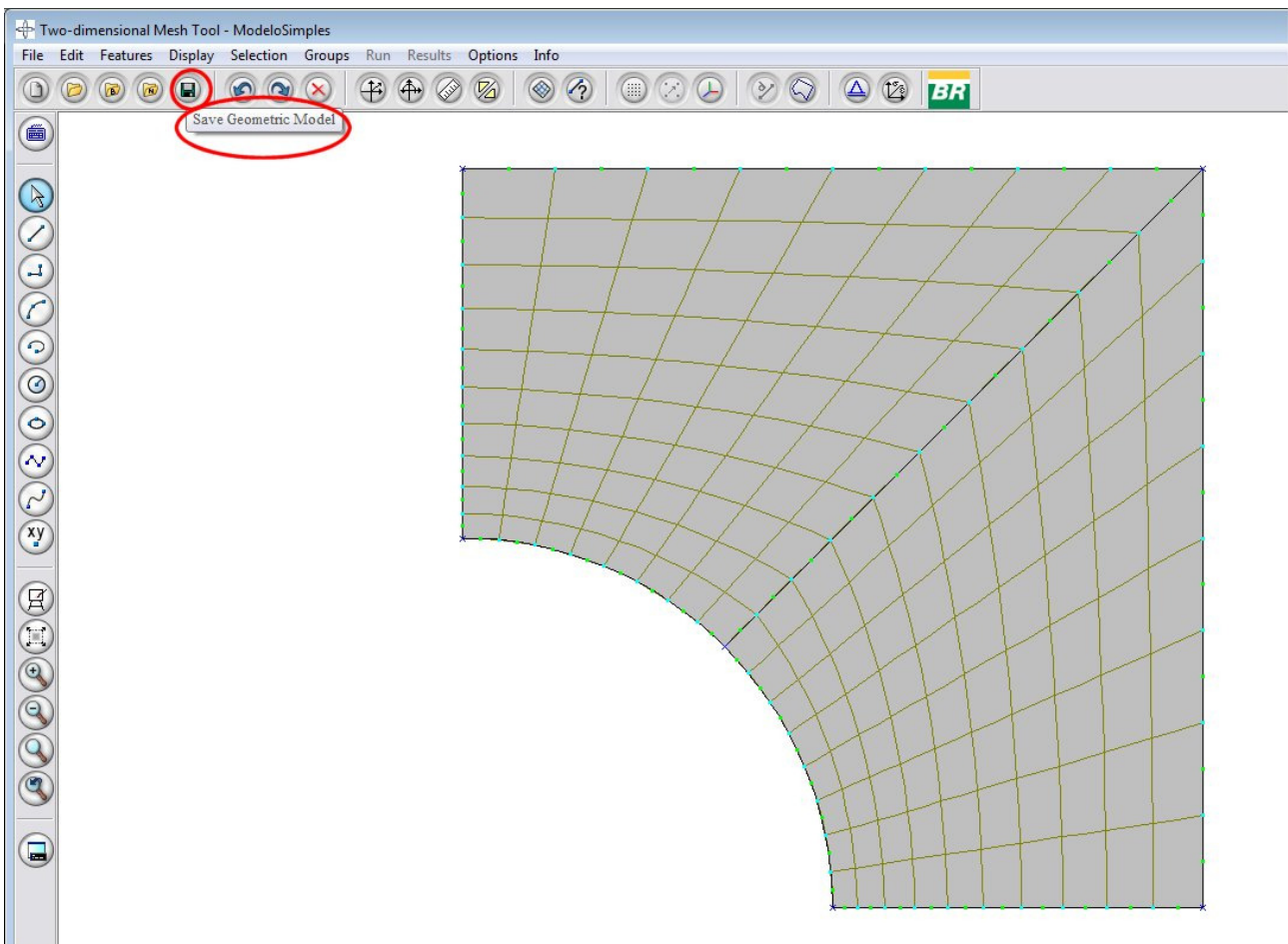




## Aplicação da malha na segunda parte da região

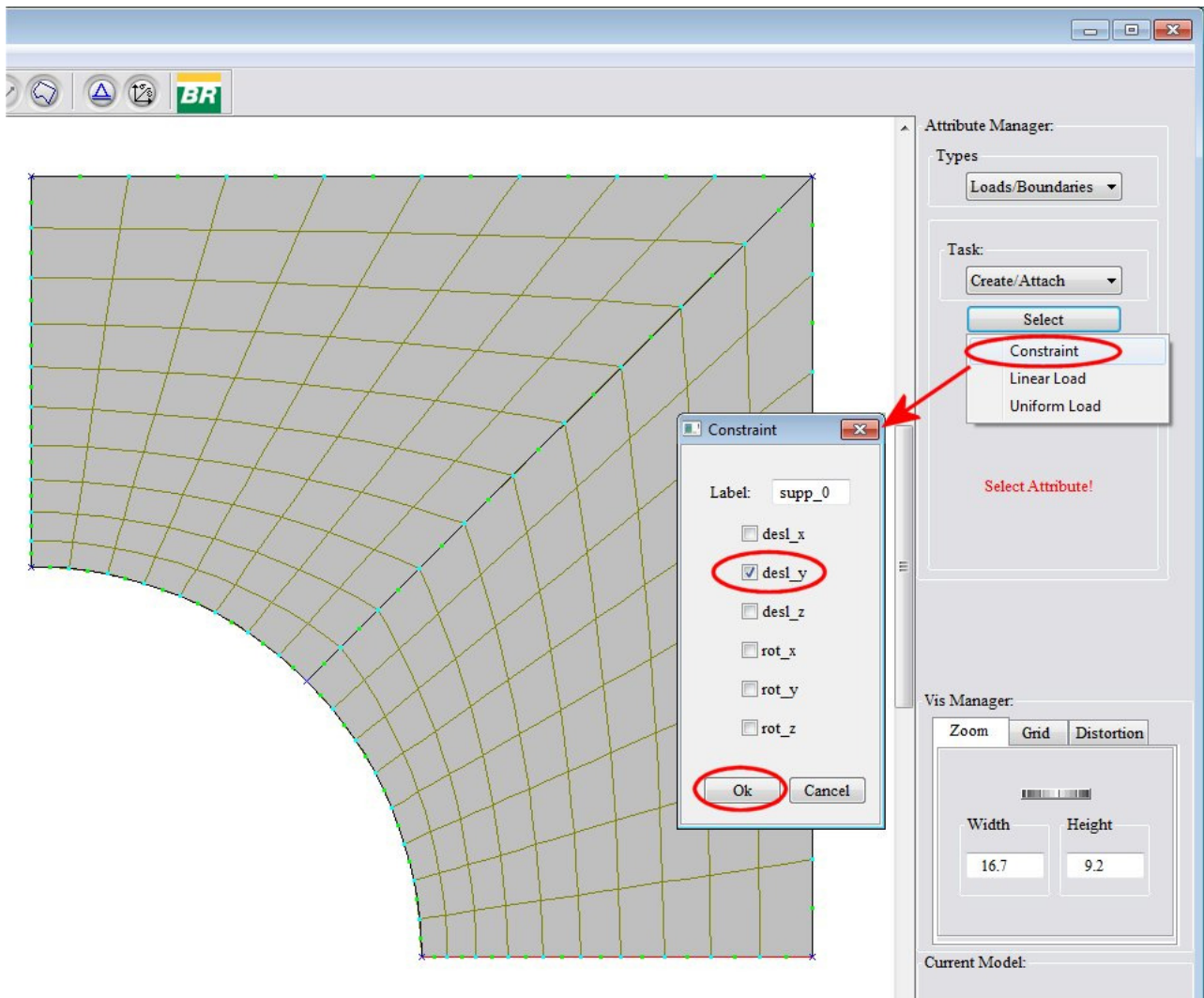


## Salva modelo com a malha criada





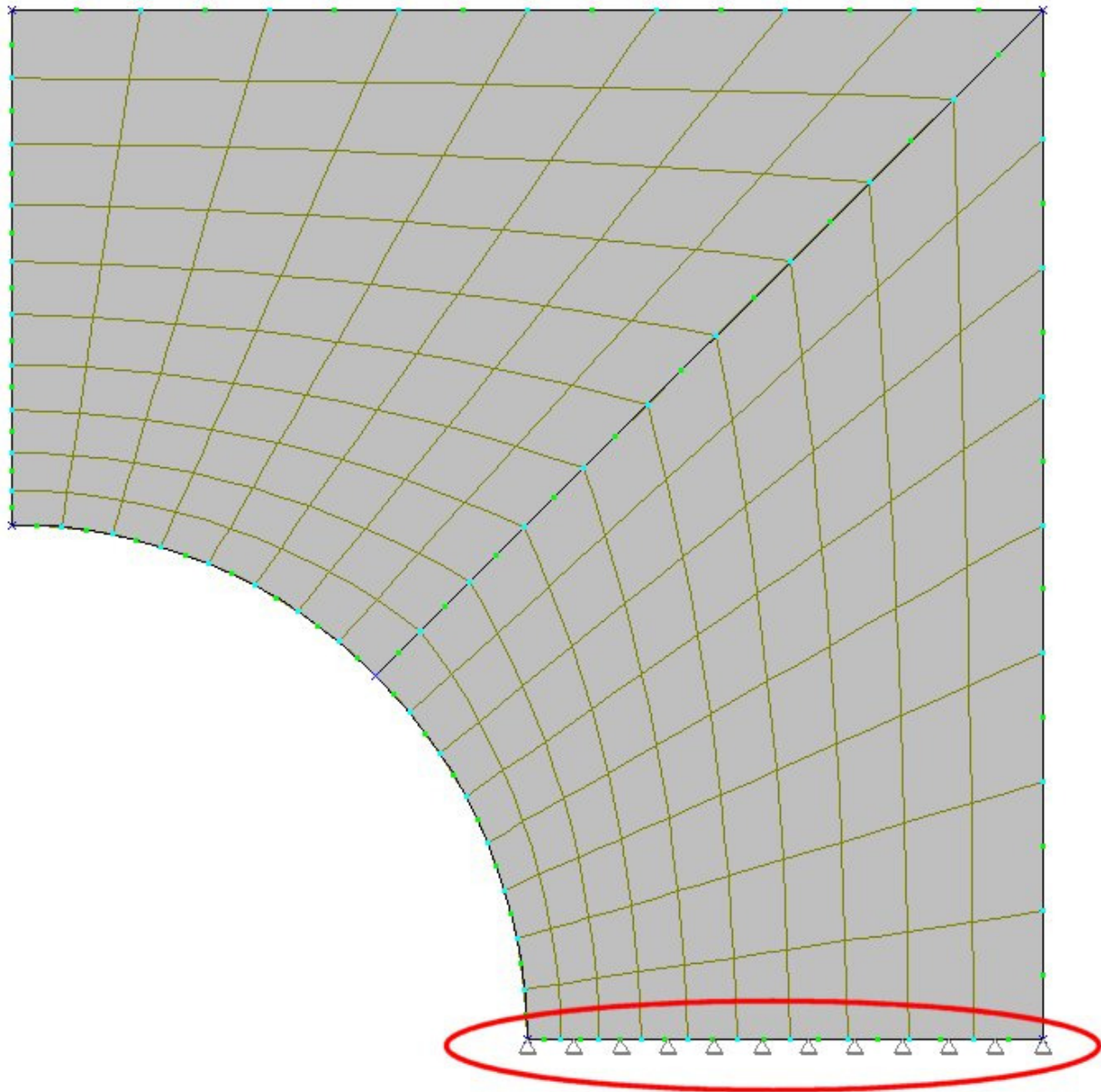
## Seleção de restrições de deslocamento





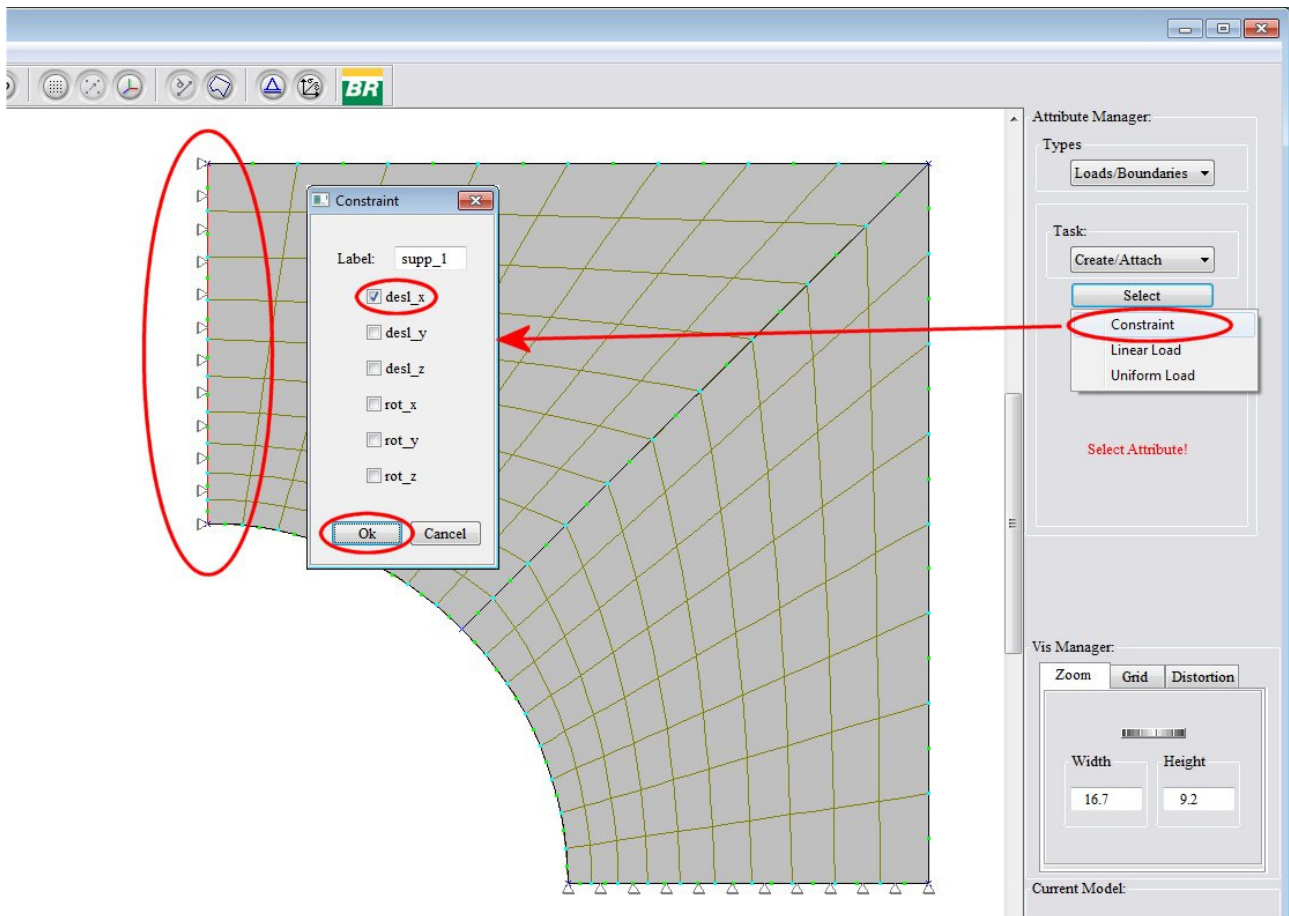


### Aplicar restrições de deslocamento ao modelo



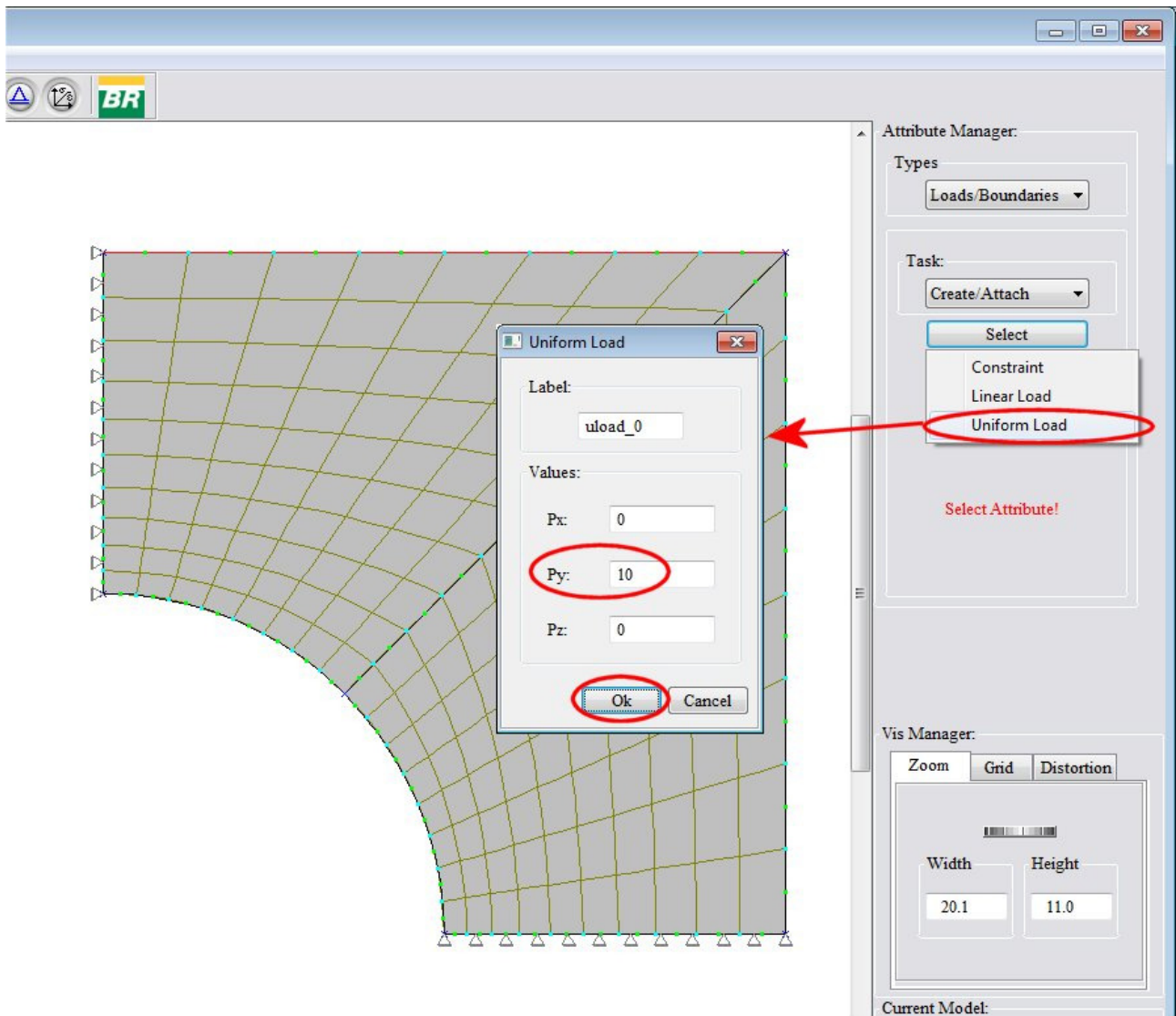


## Aplicar de restrições de deslocamento ao modelo



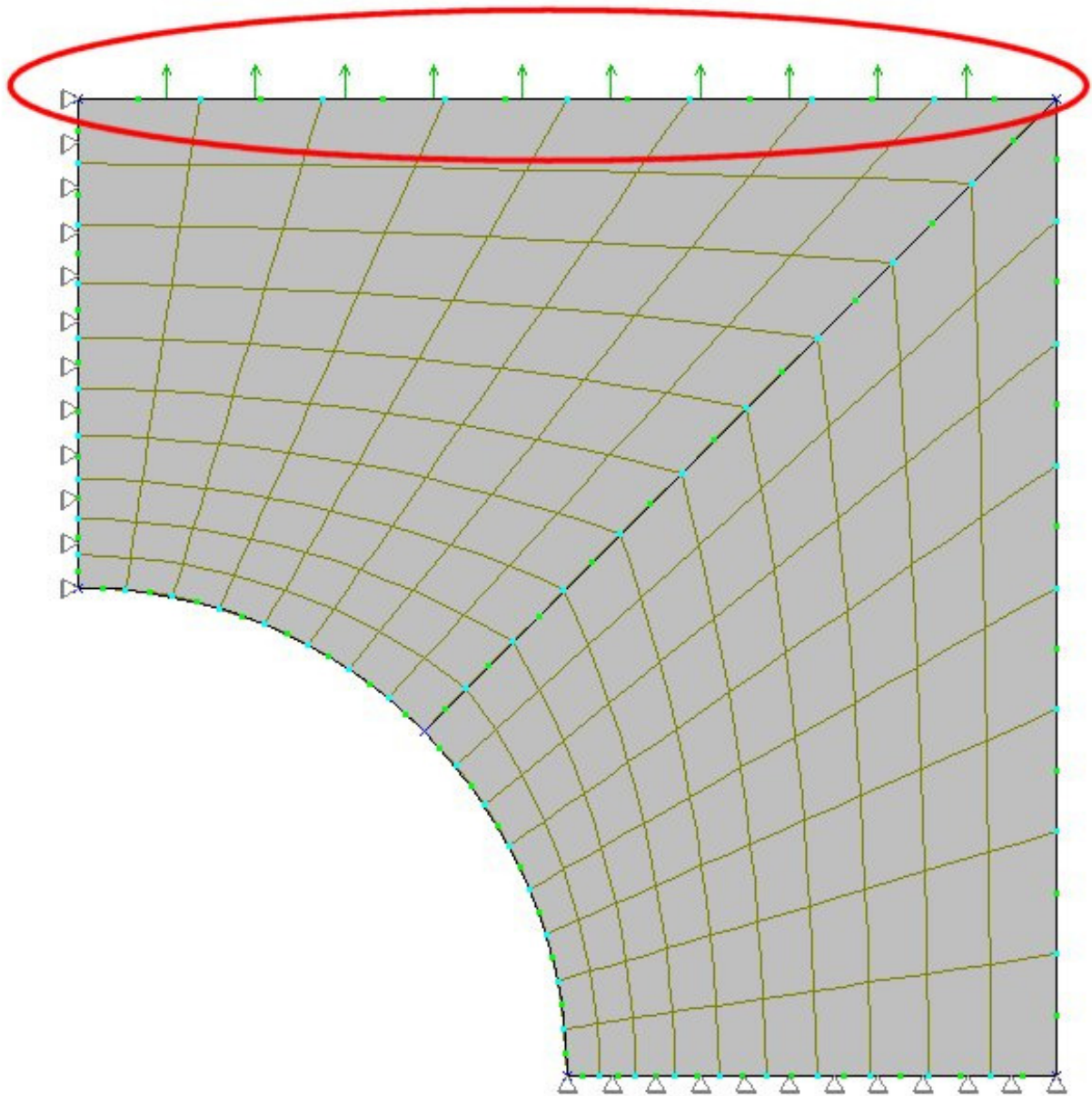


### Seleção de atributo de carregamento uniforme



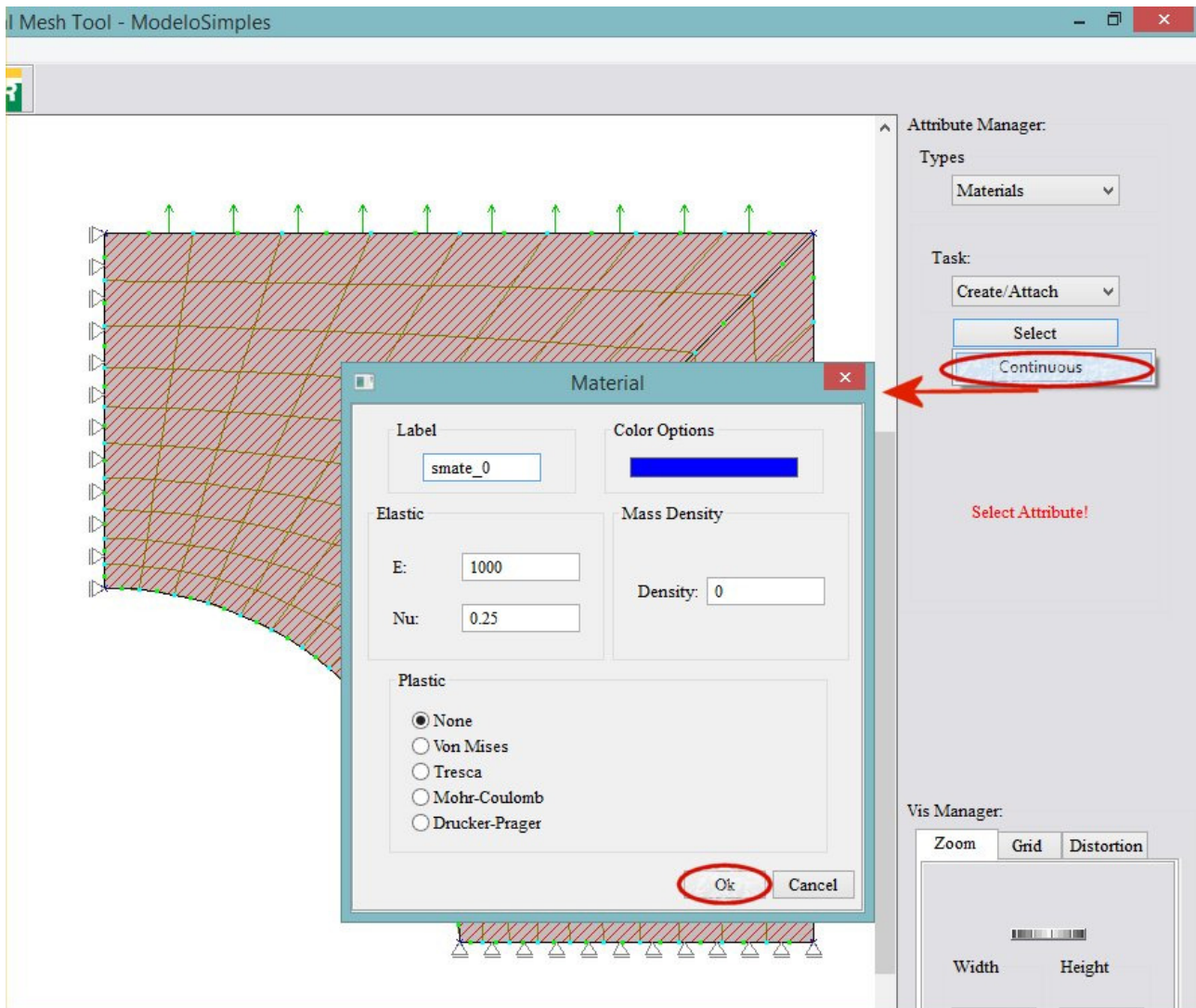


### Aplicar atributo de carregamento uniforme



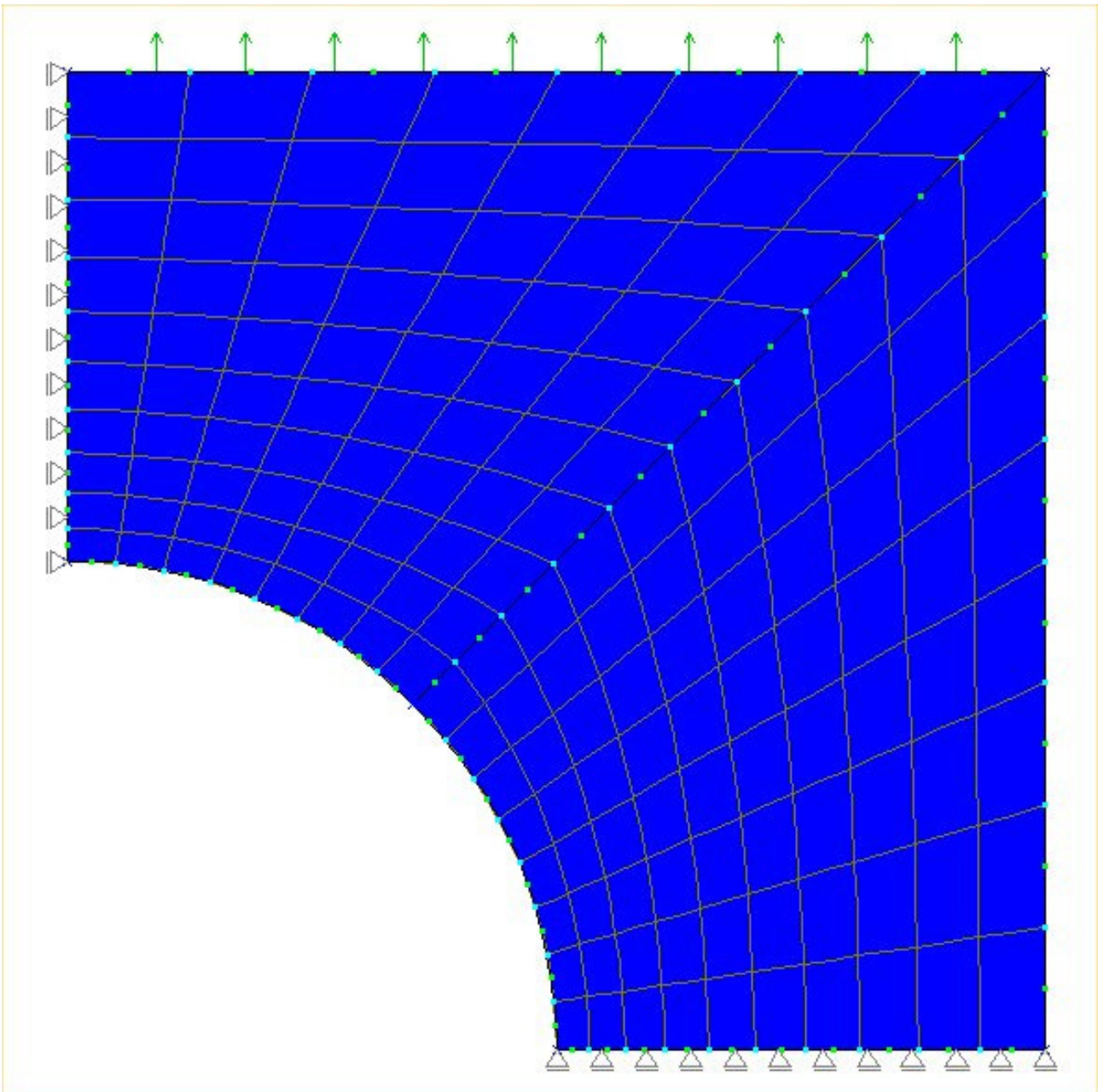


## Seleção de atributo de material



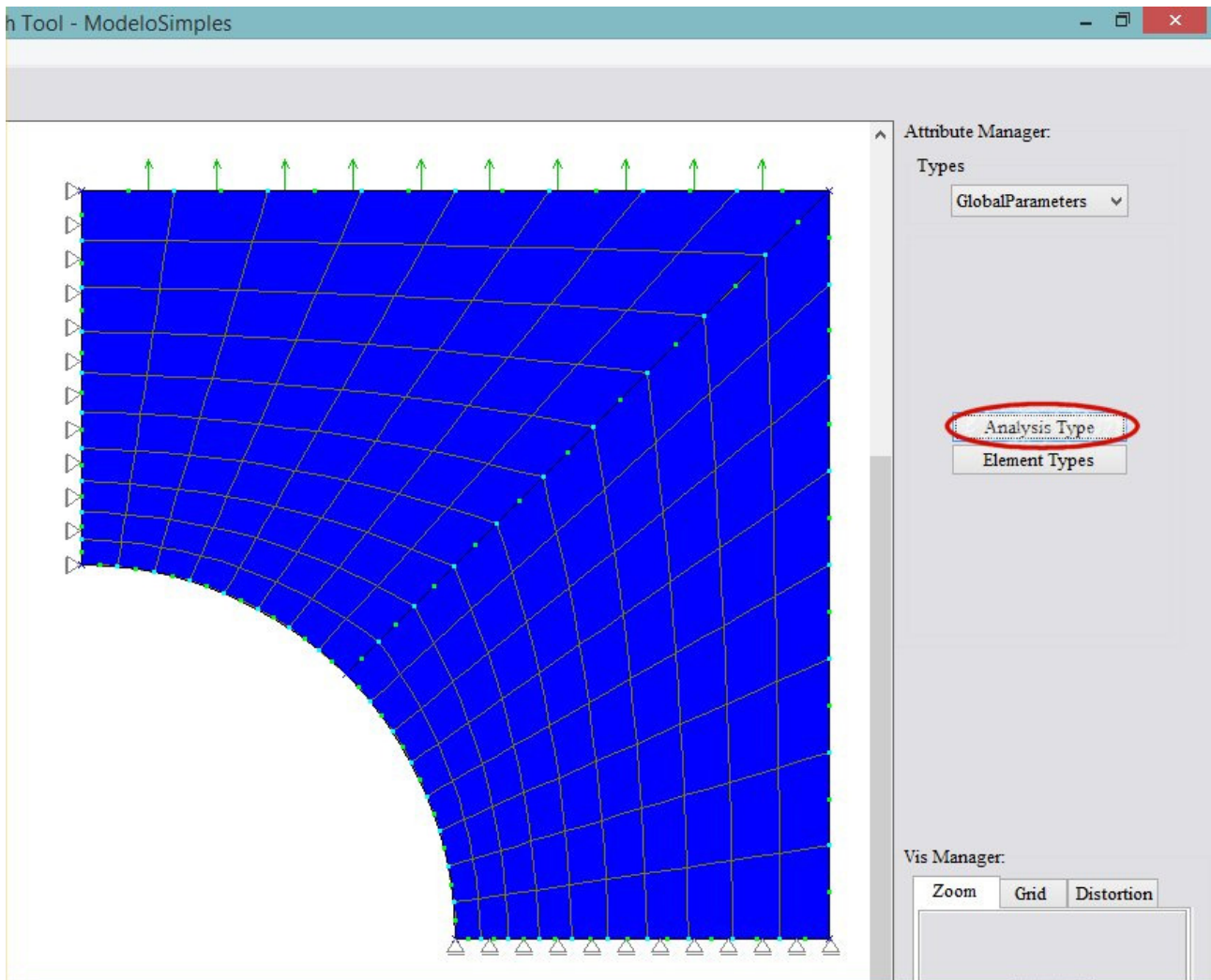


### Aplicar atributo de material ao modelo



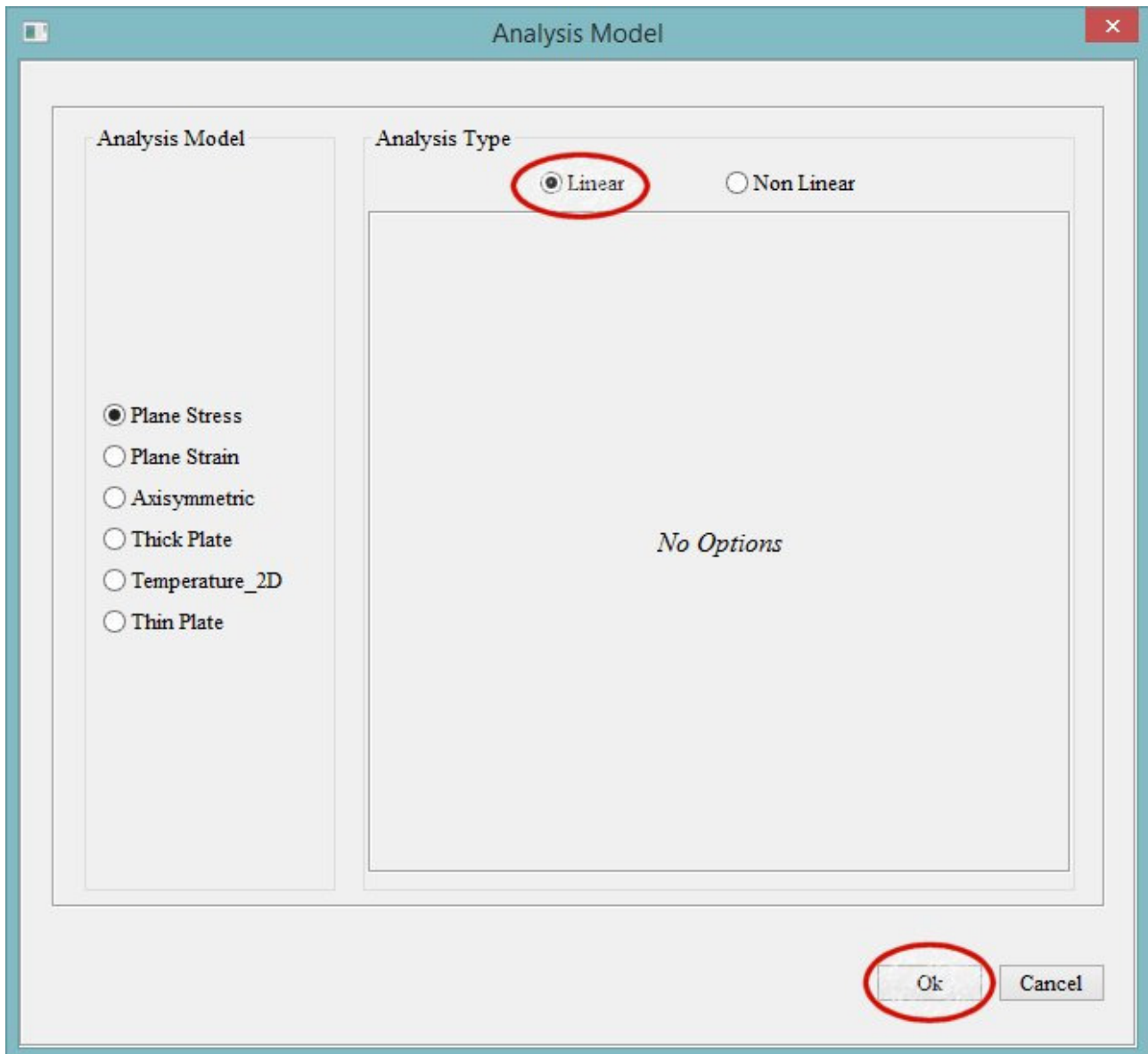


### Selecionar atributos de tipo de análise





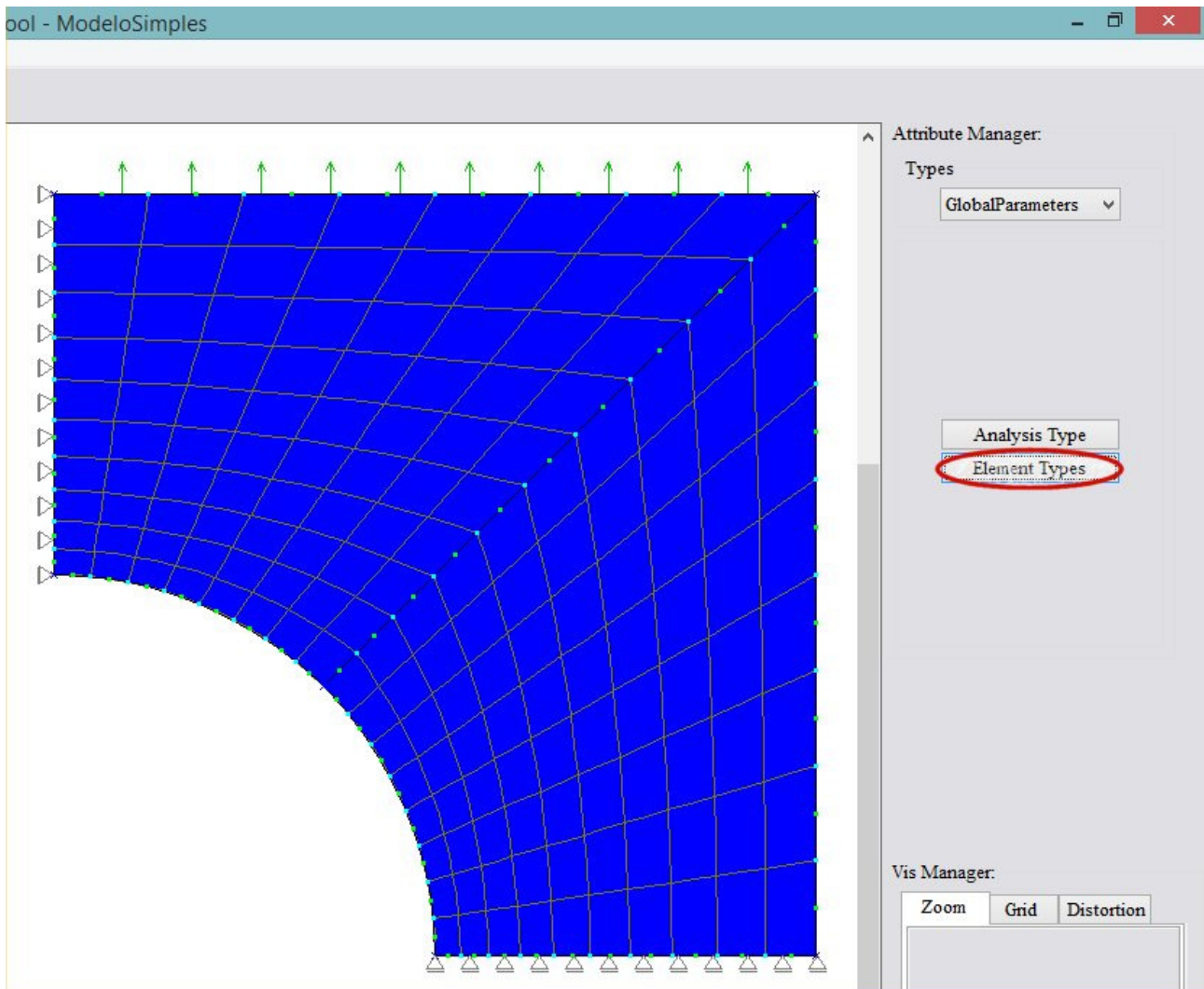
### Aplicar atributos de tipo de análise





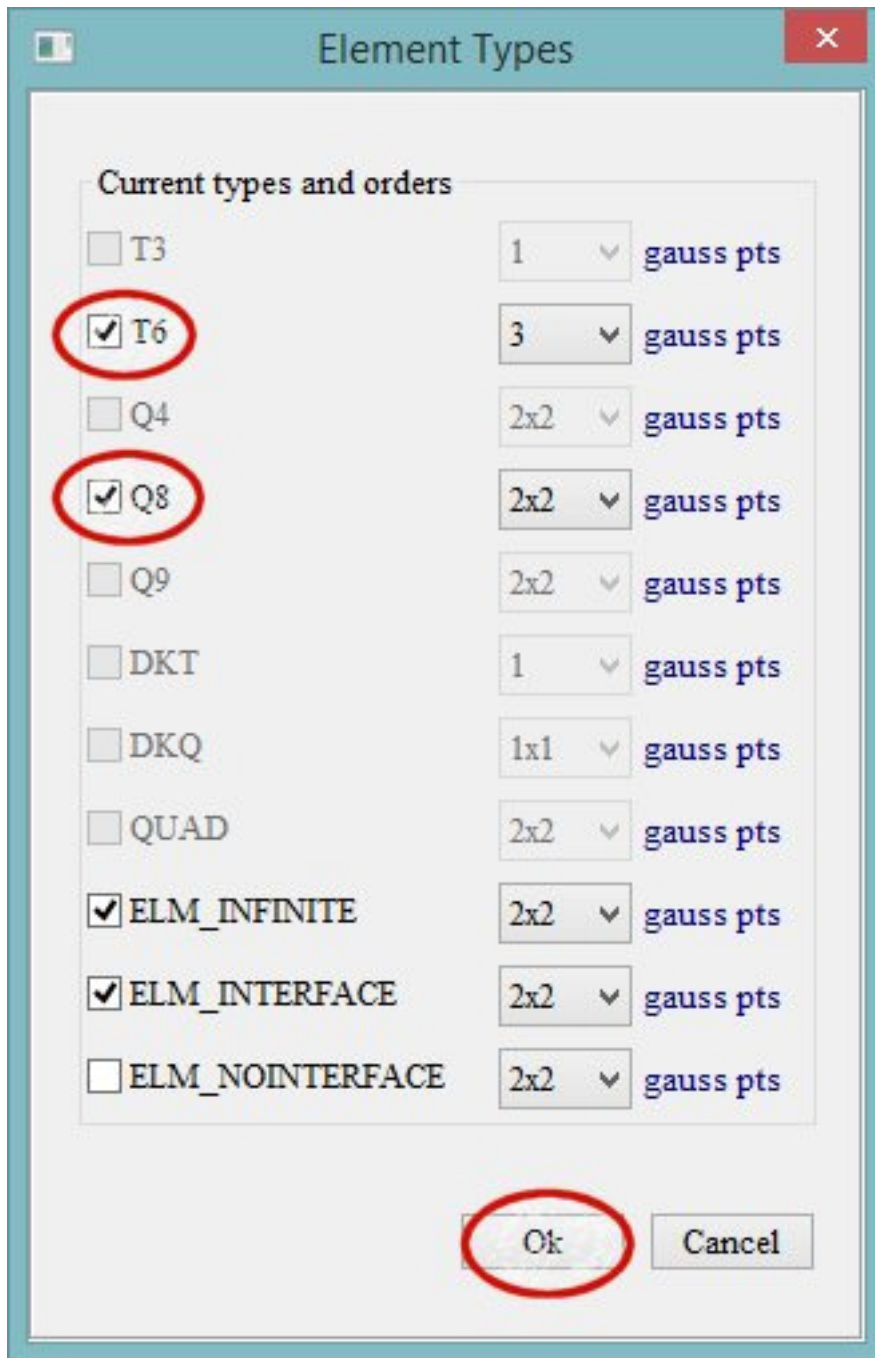


## Selecionar atributos de tipos de elemento



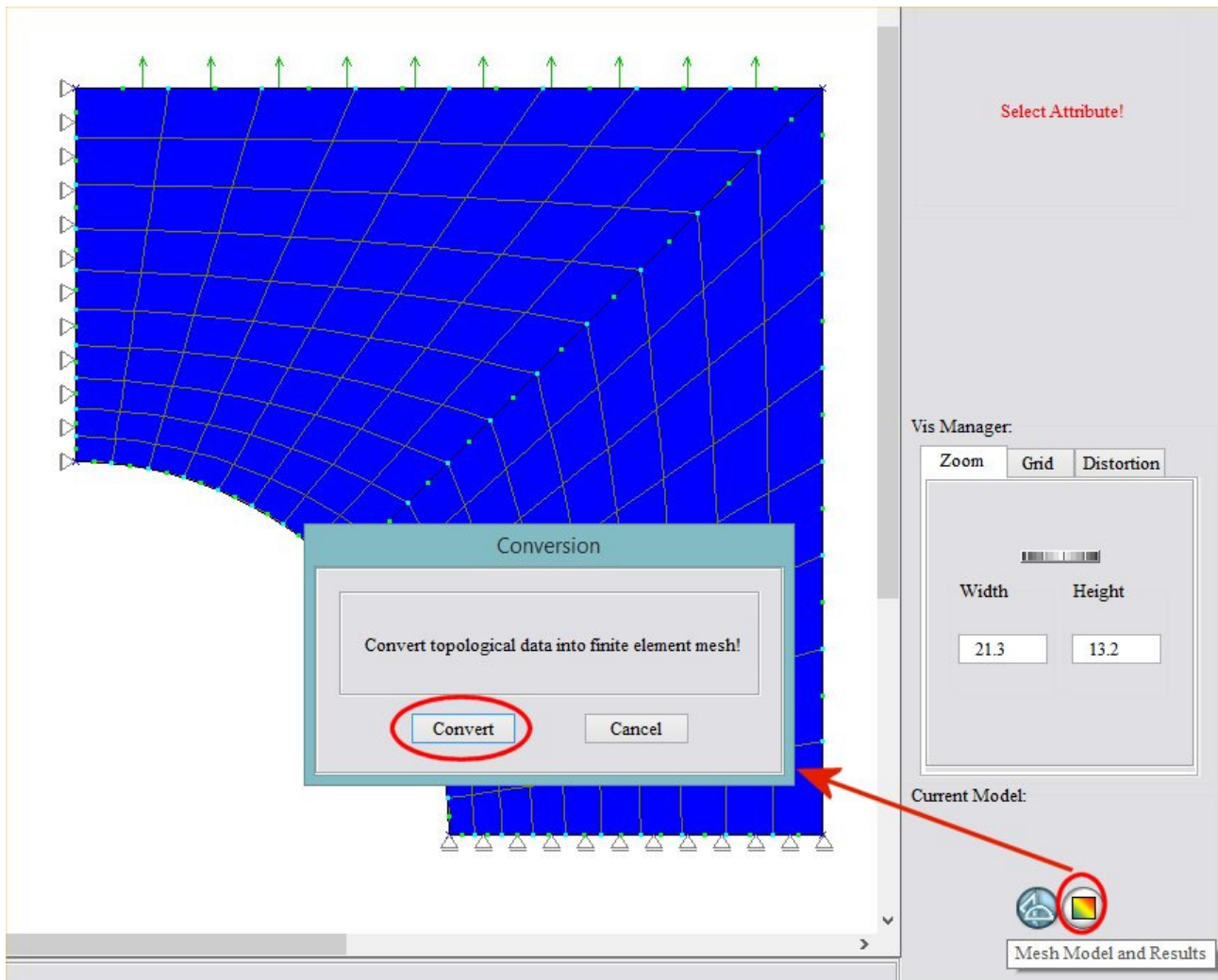


### Aplicar atributos de tipos de elemento ao modelo



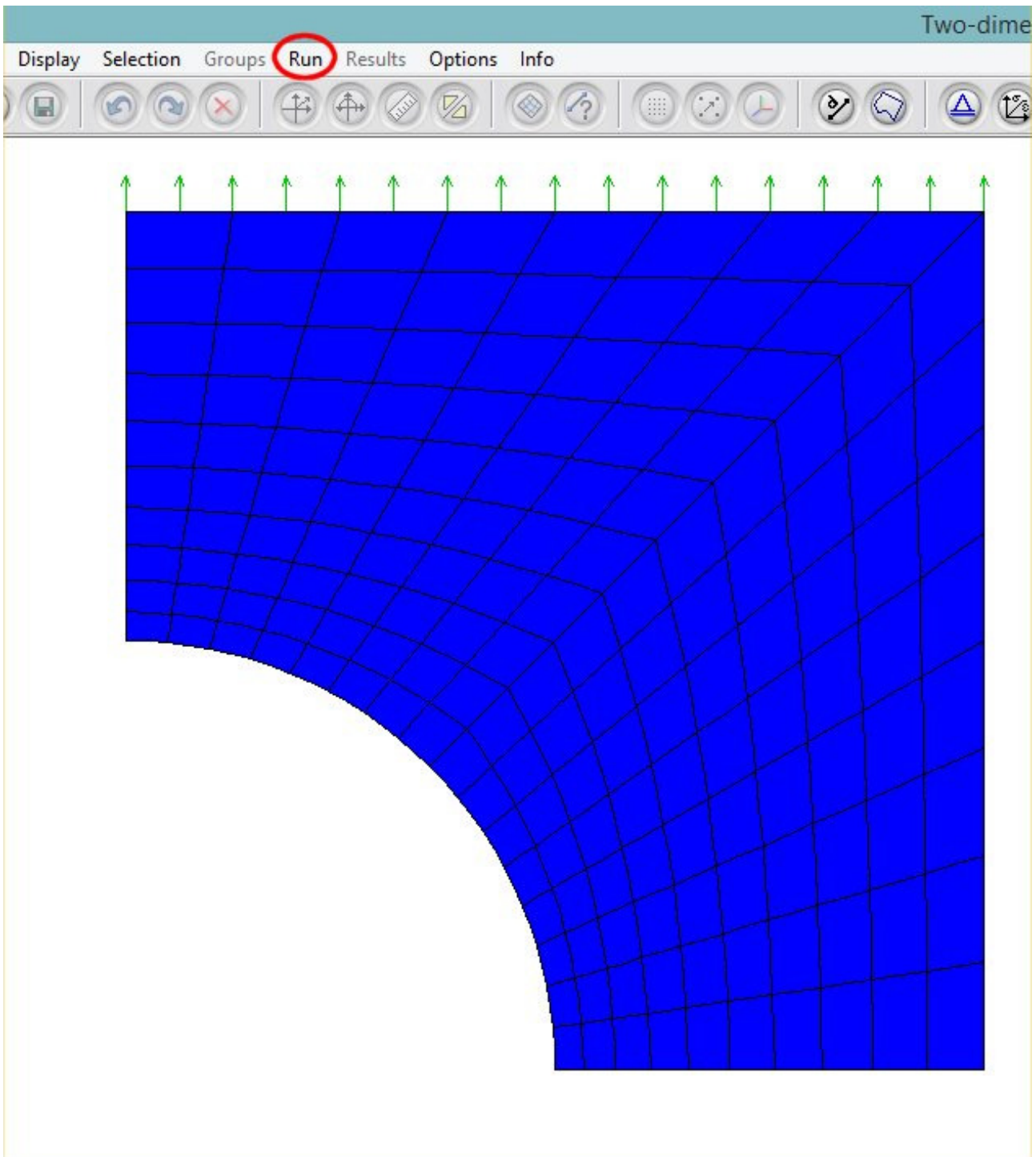


## Converter modelo geométrico para malha de elementos finitos



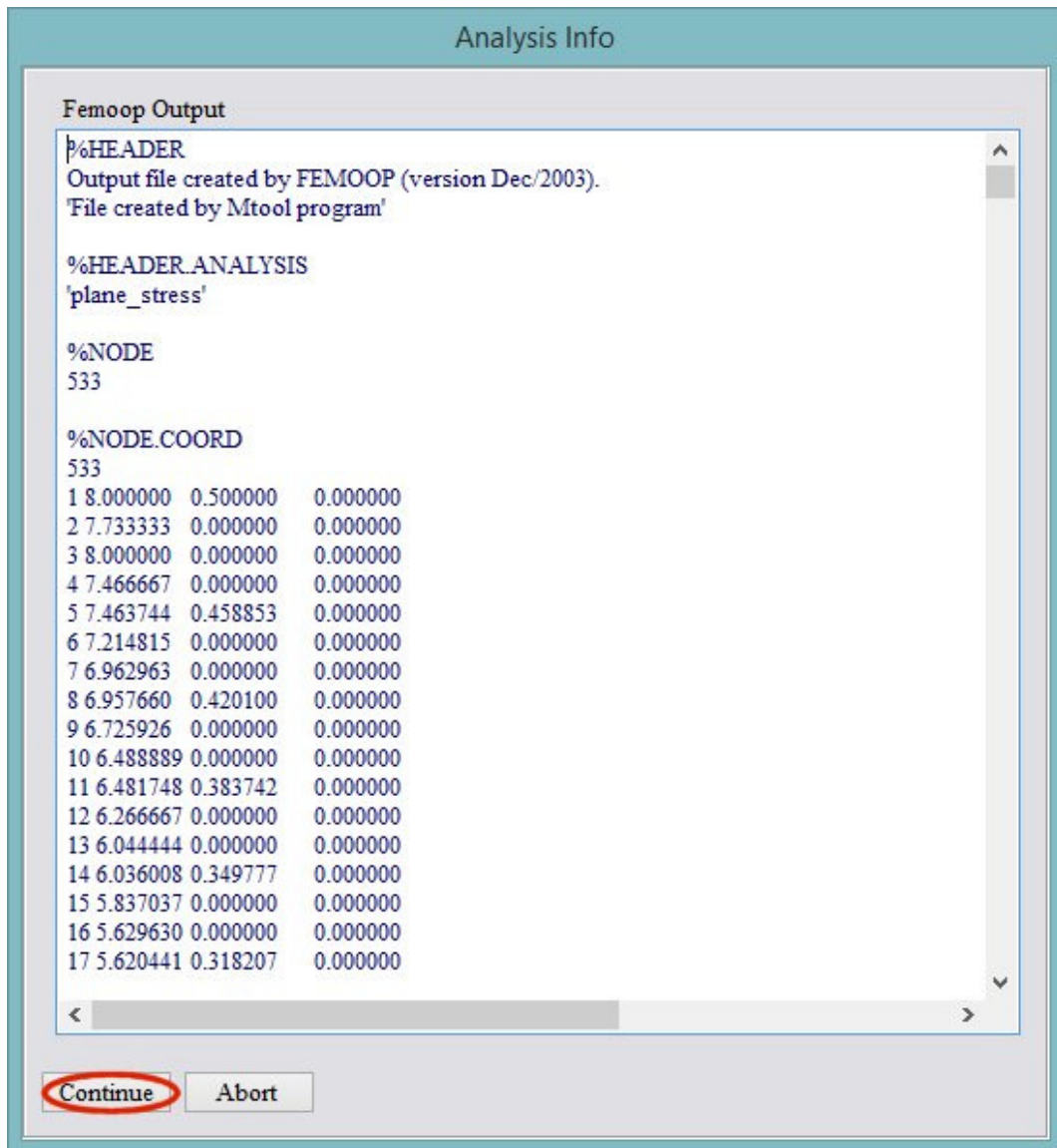


## Rodar análise

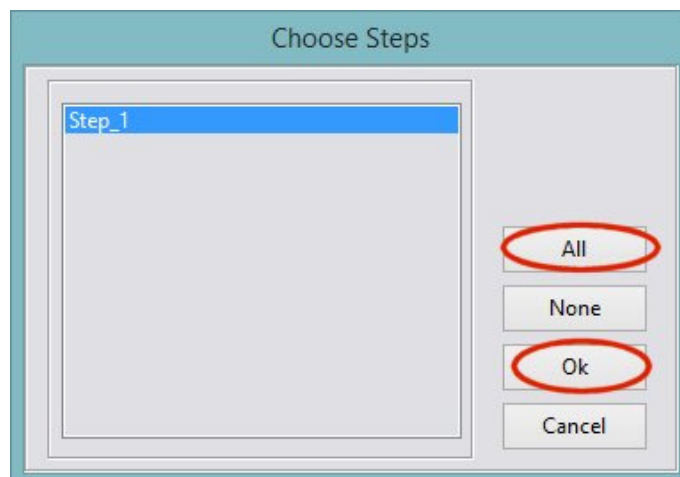




## Informações do modelo

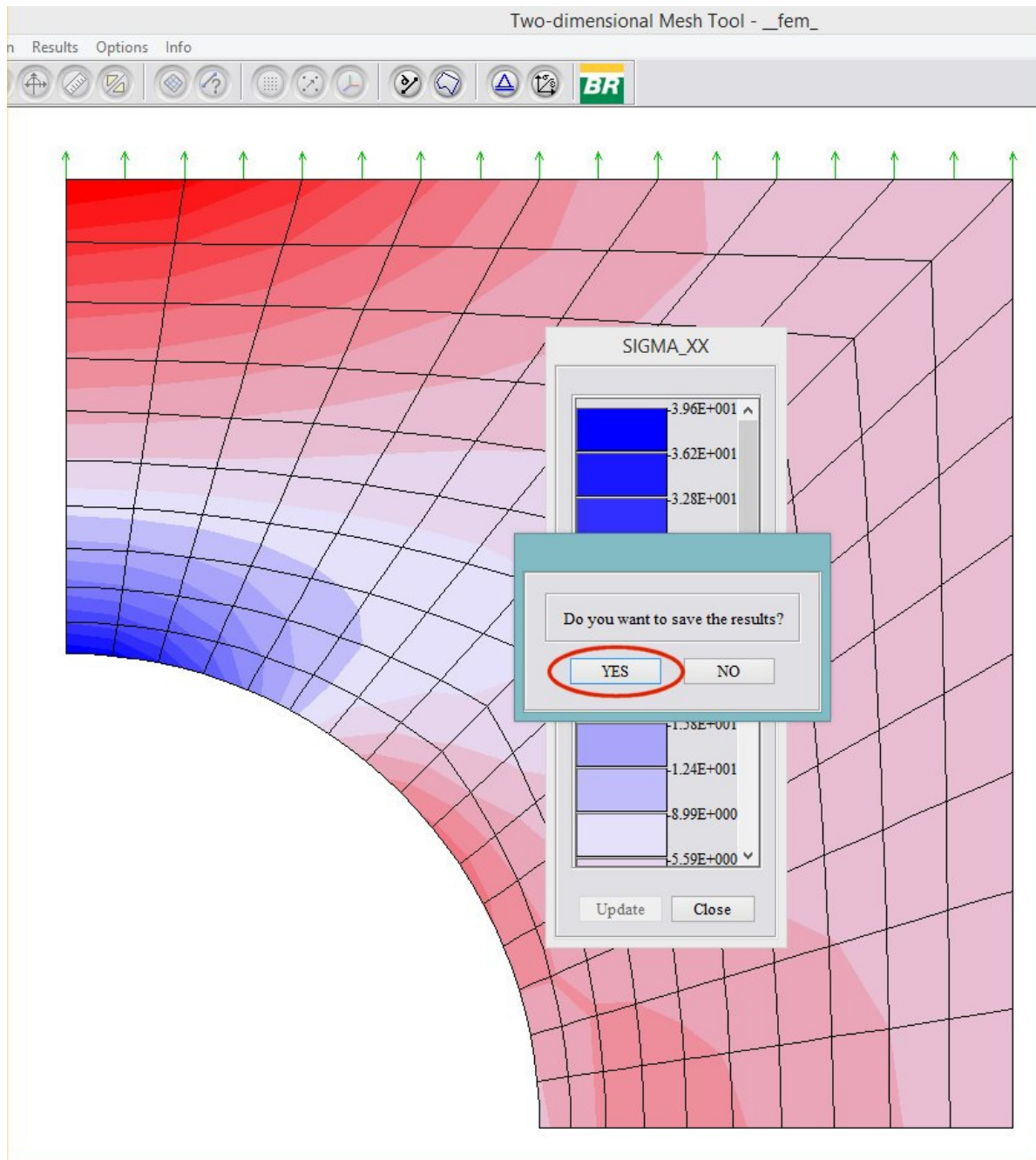


## Escolha dos passos de execução Titulo 2



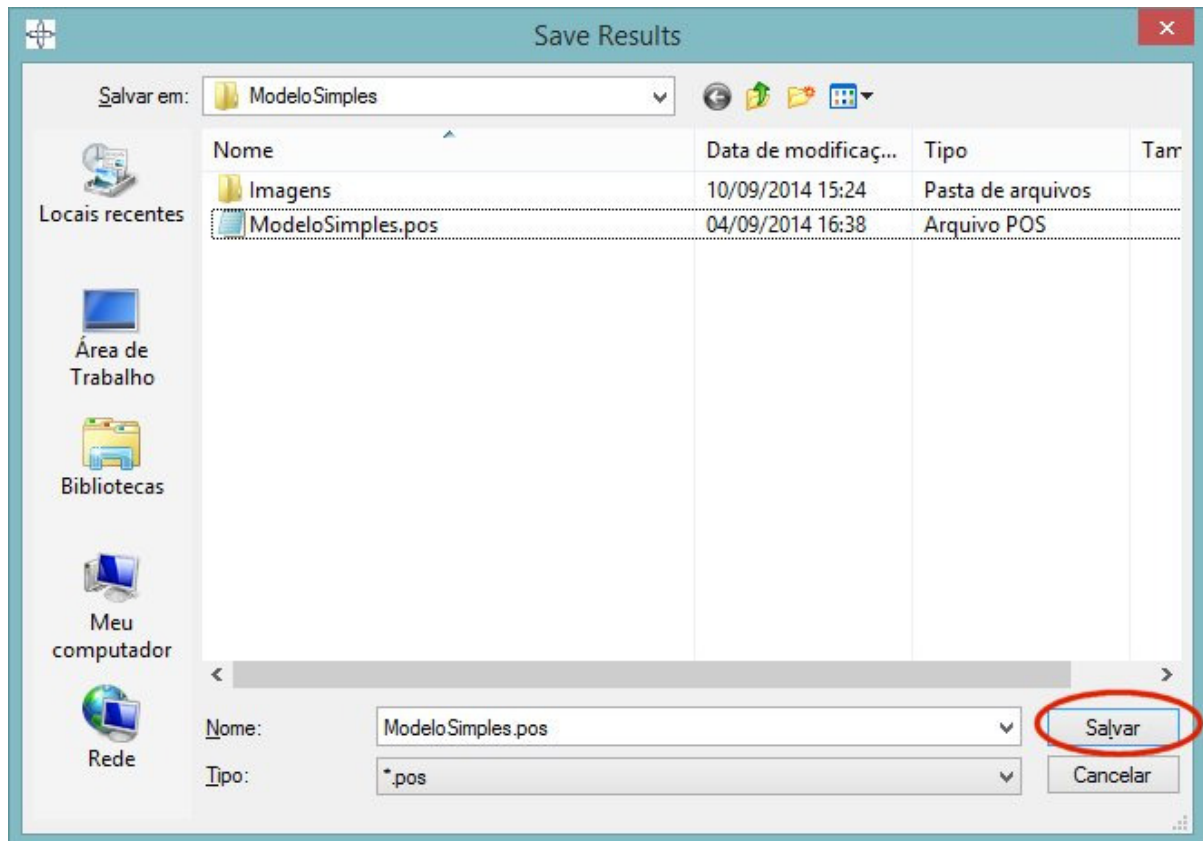


## Salvar Resultados



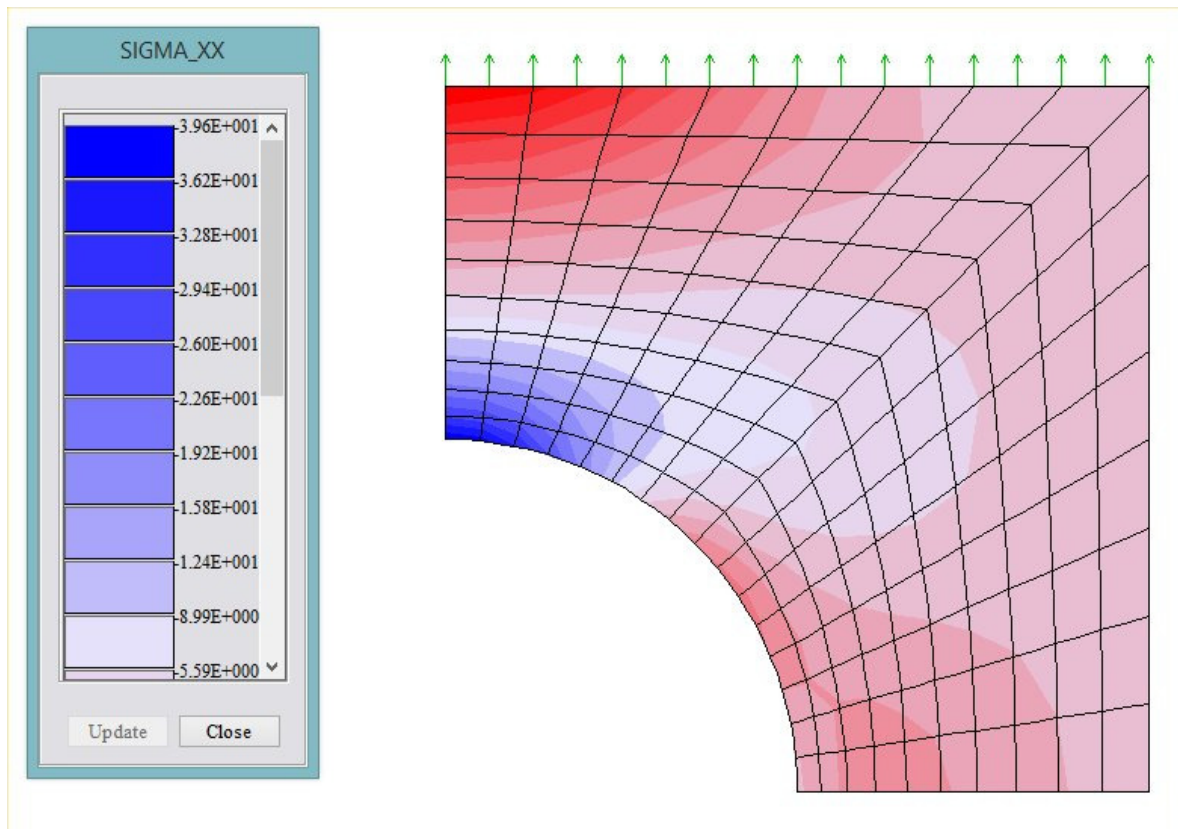


## Salvar Resultado

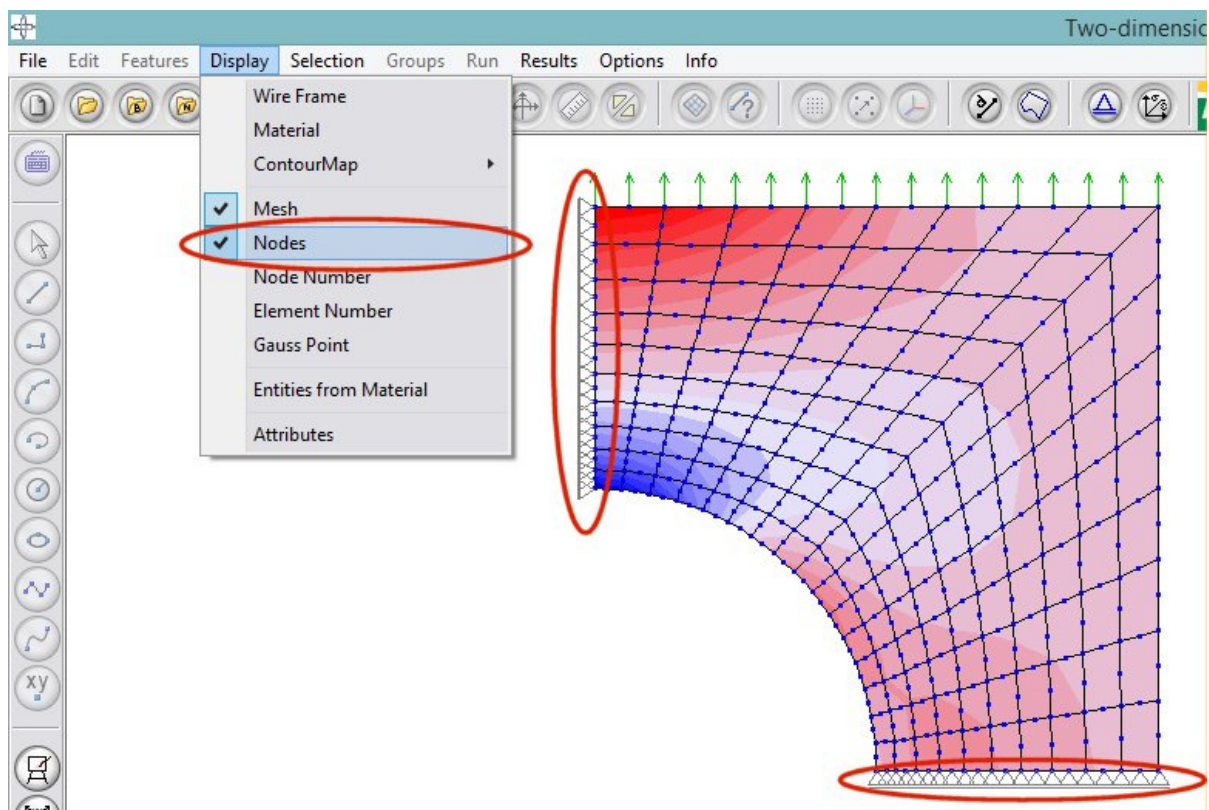




### Primeiro resultado



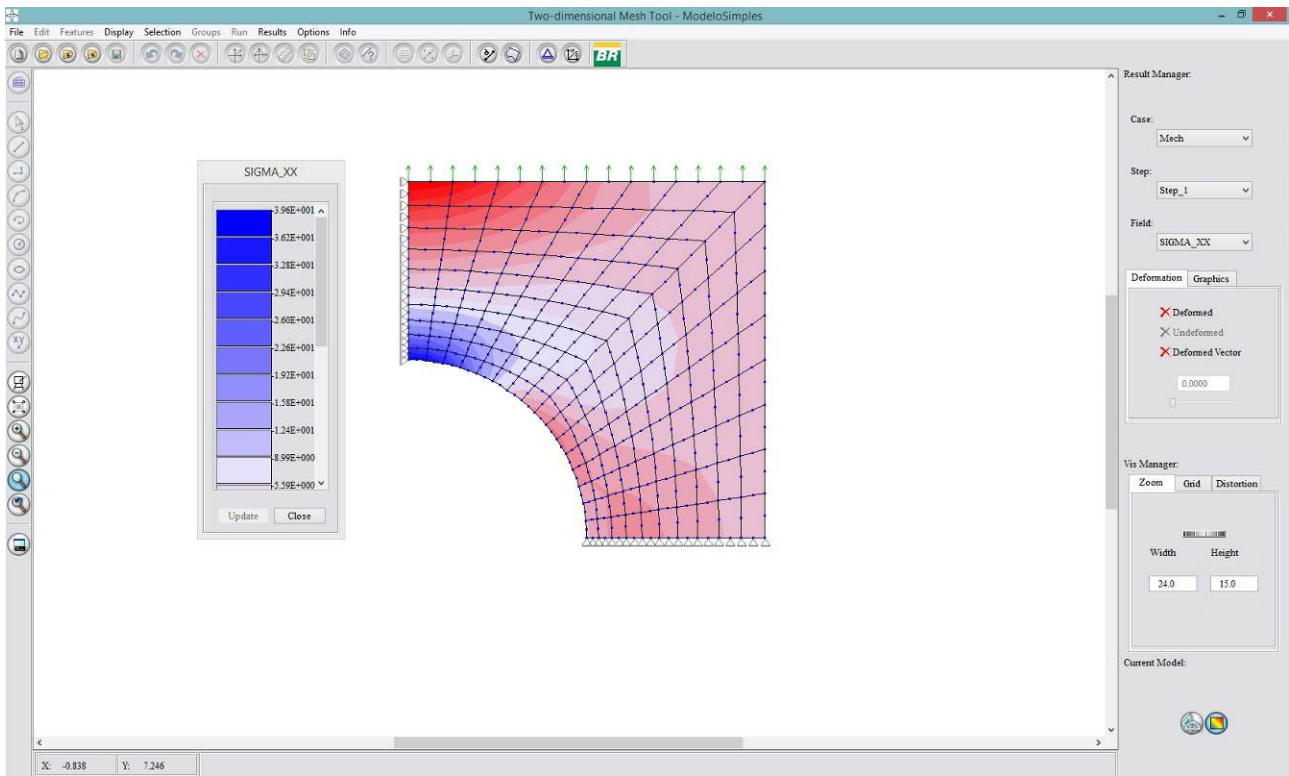
### Habilitar exibição de nós do modelo







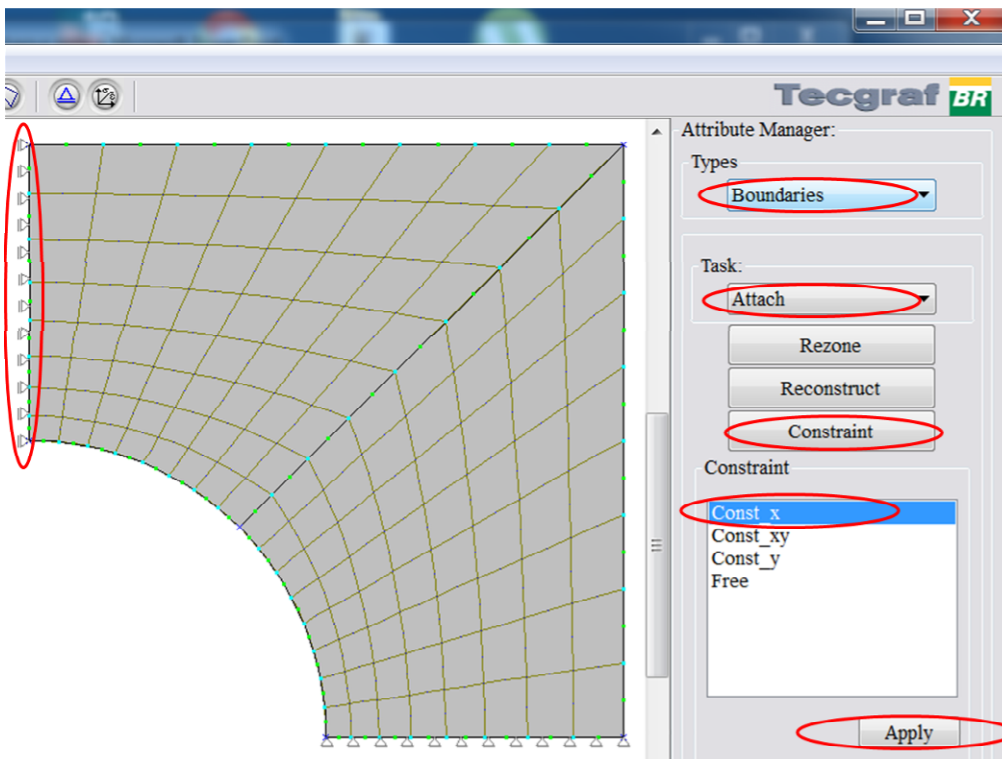
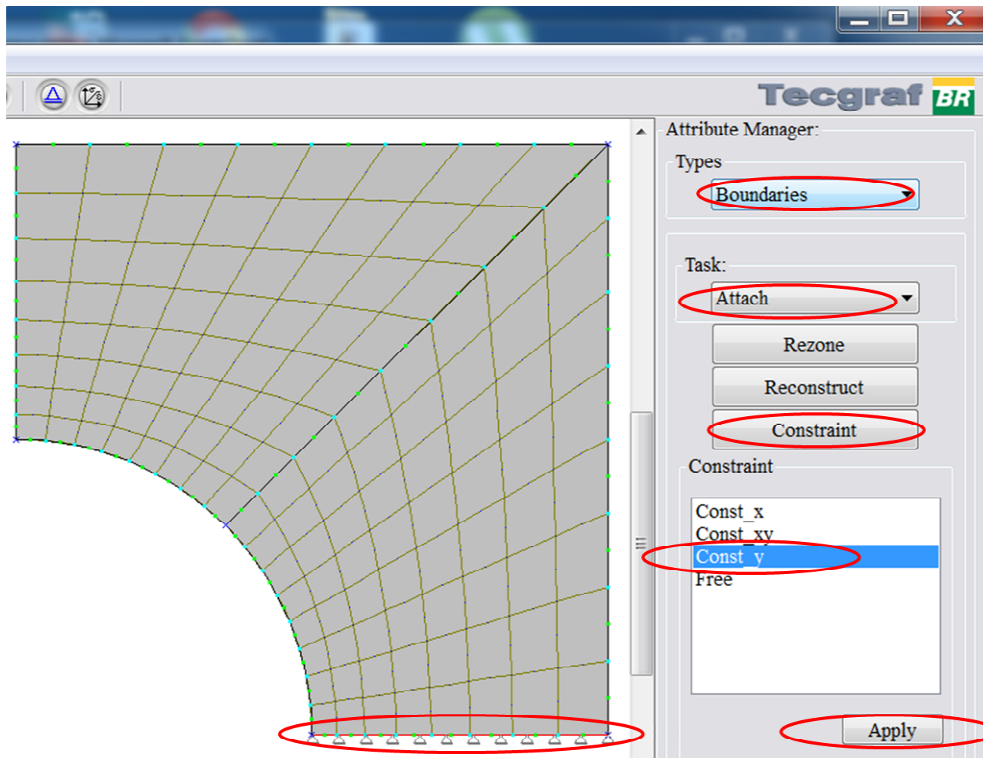
# Modelo final





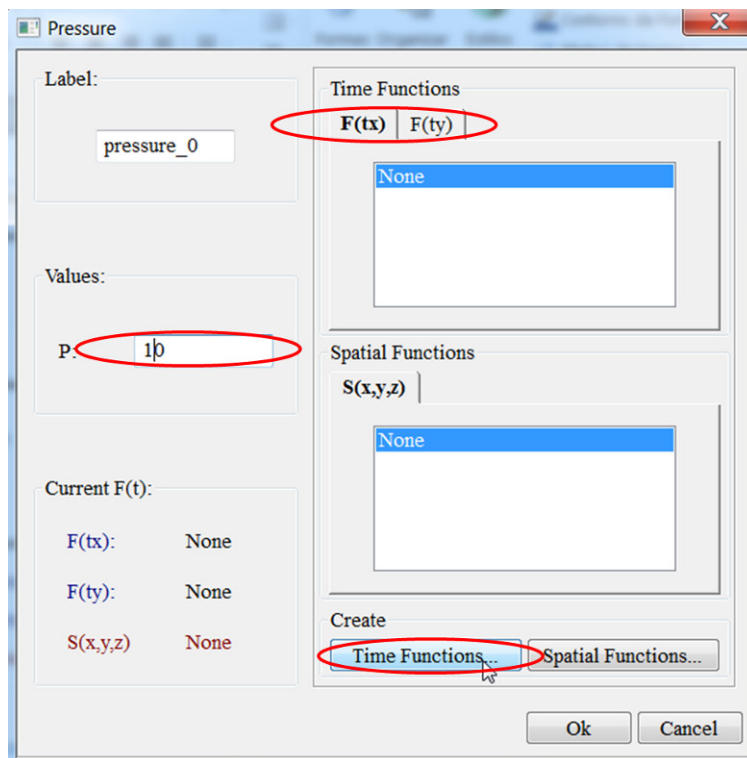
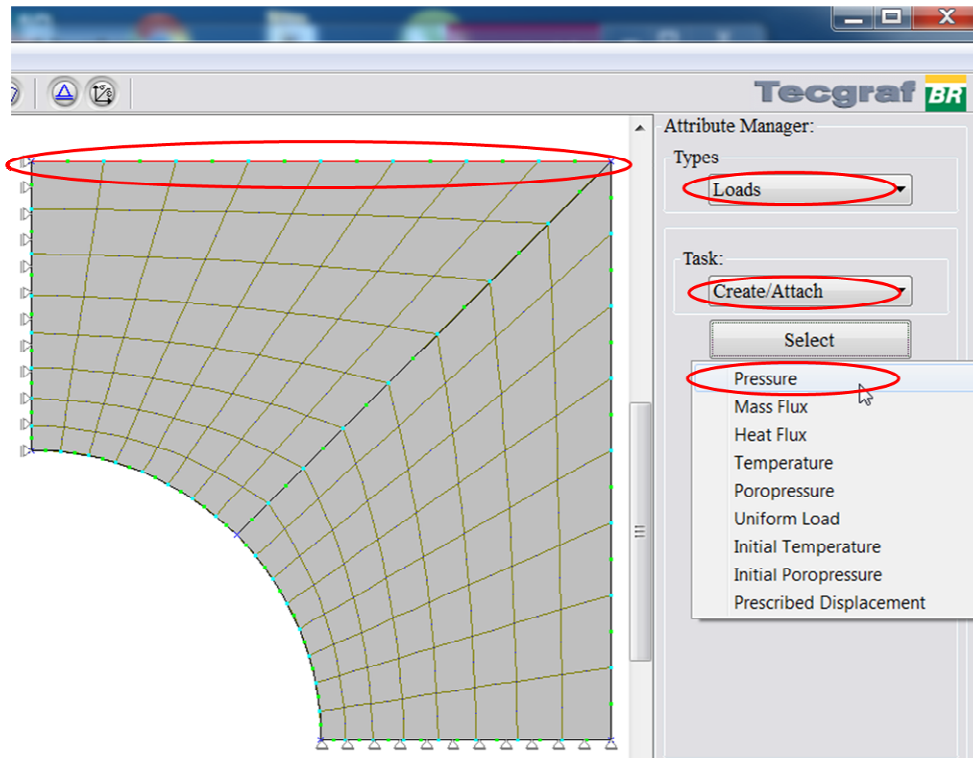
# Sigma para Abaqus

## Aplicar restrição de deslocamento



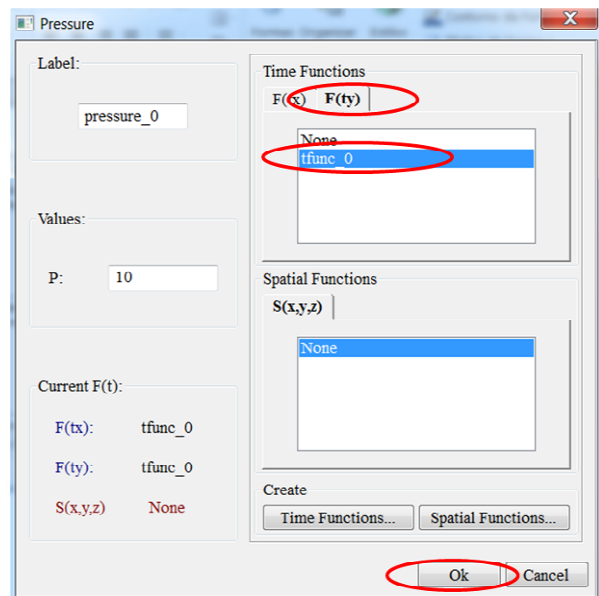
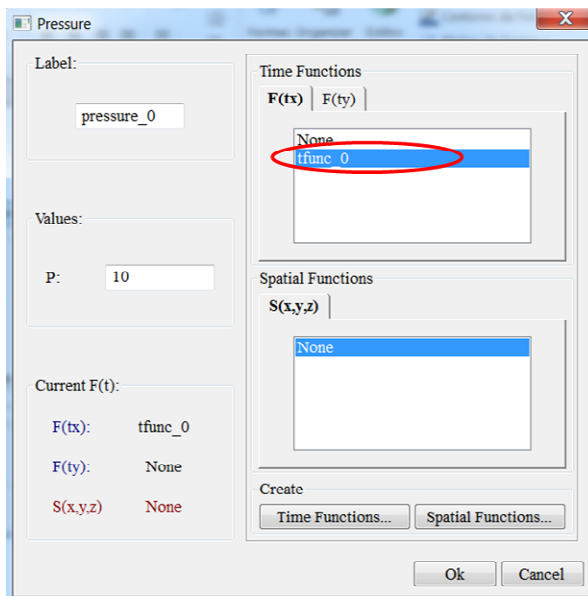
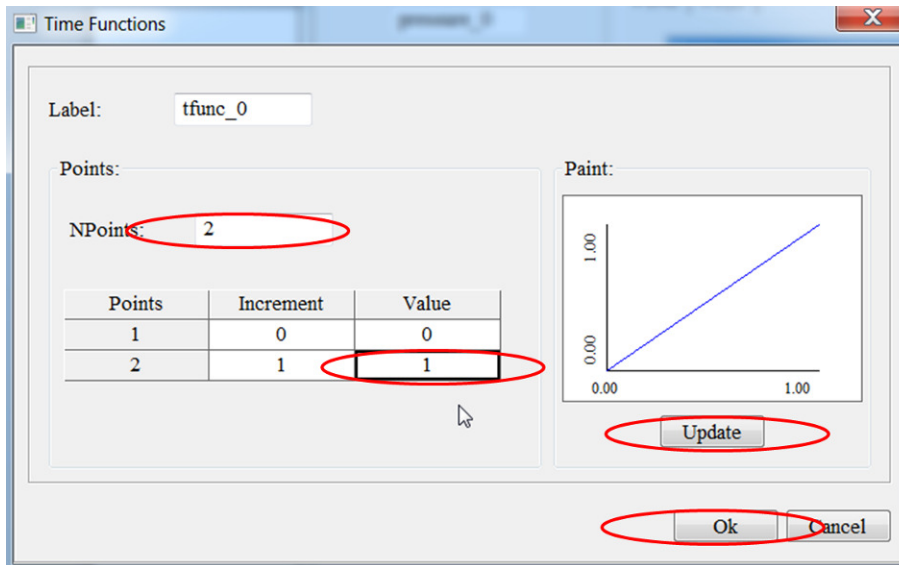


### Aplicar pressão na aresta



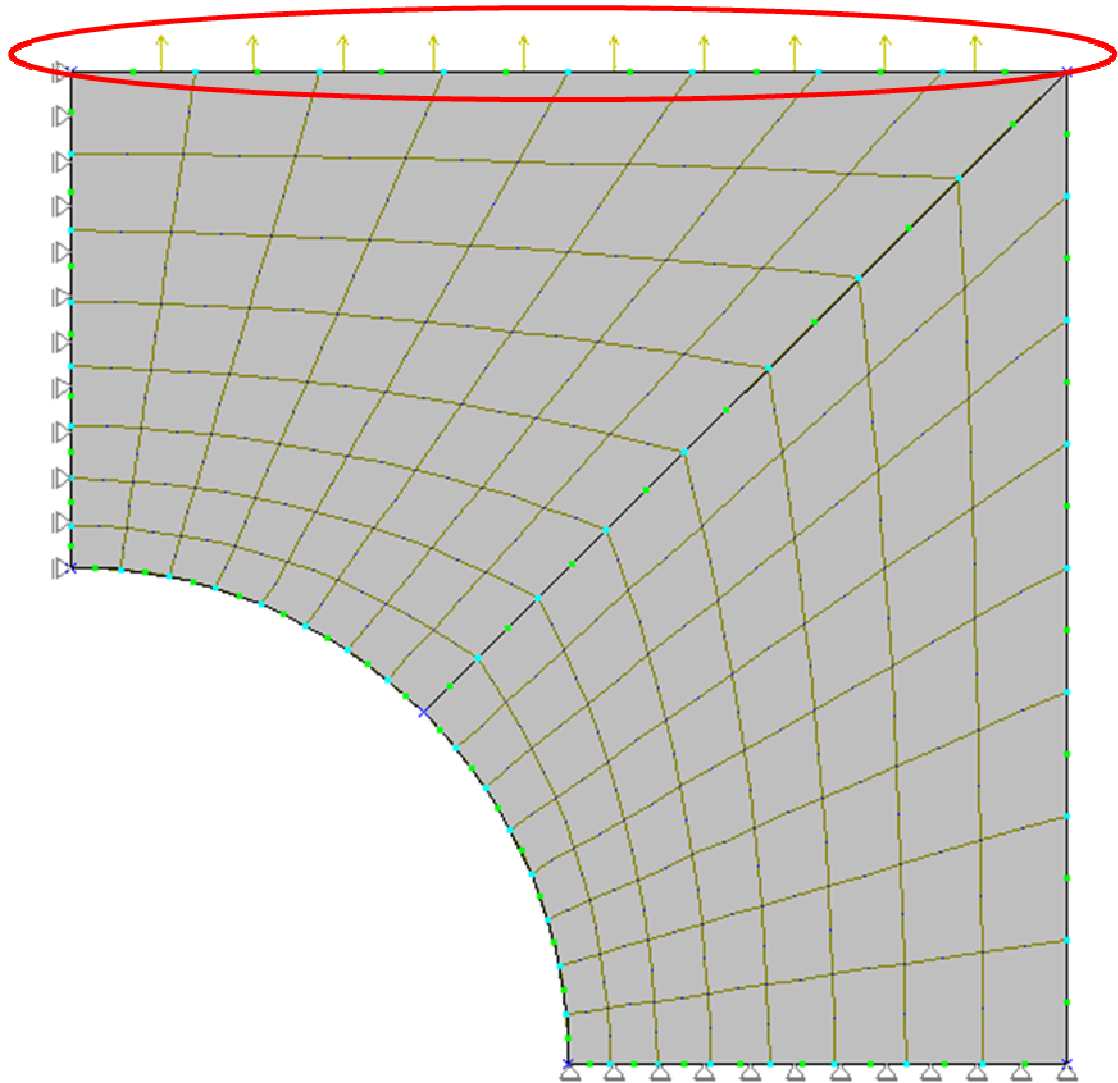


### Aplicar pressão na aresta – criar função de tempo/passo e aplicar em F(x) e F(y)



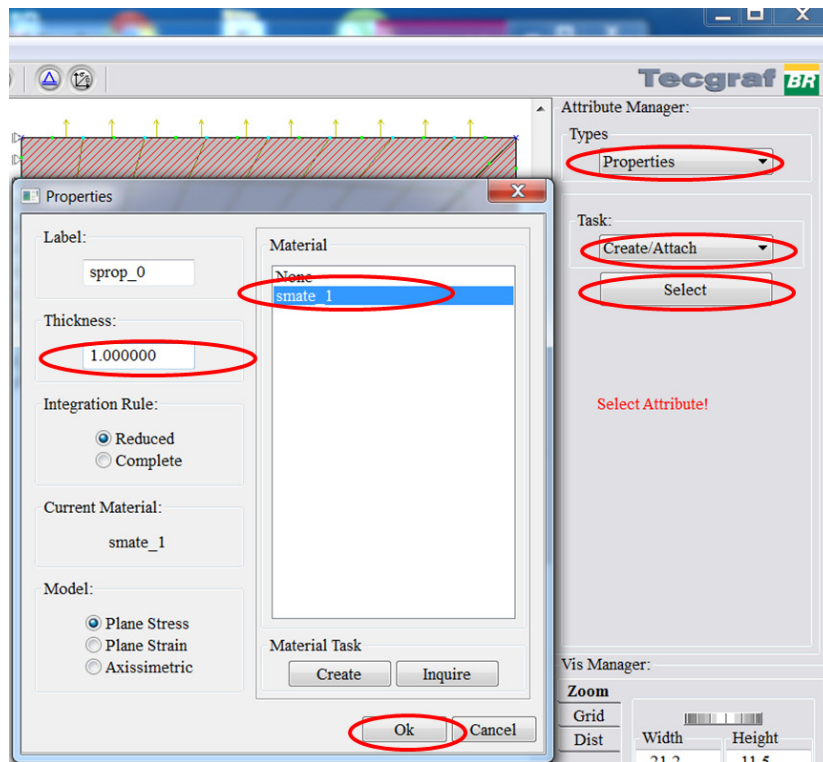
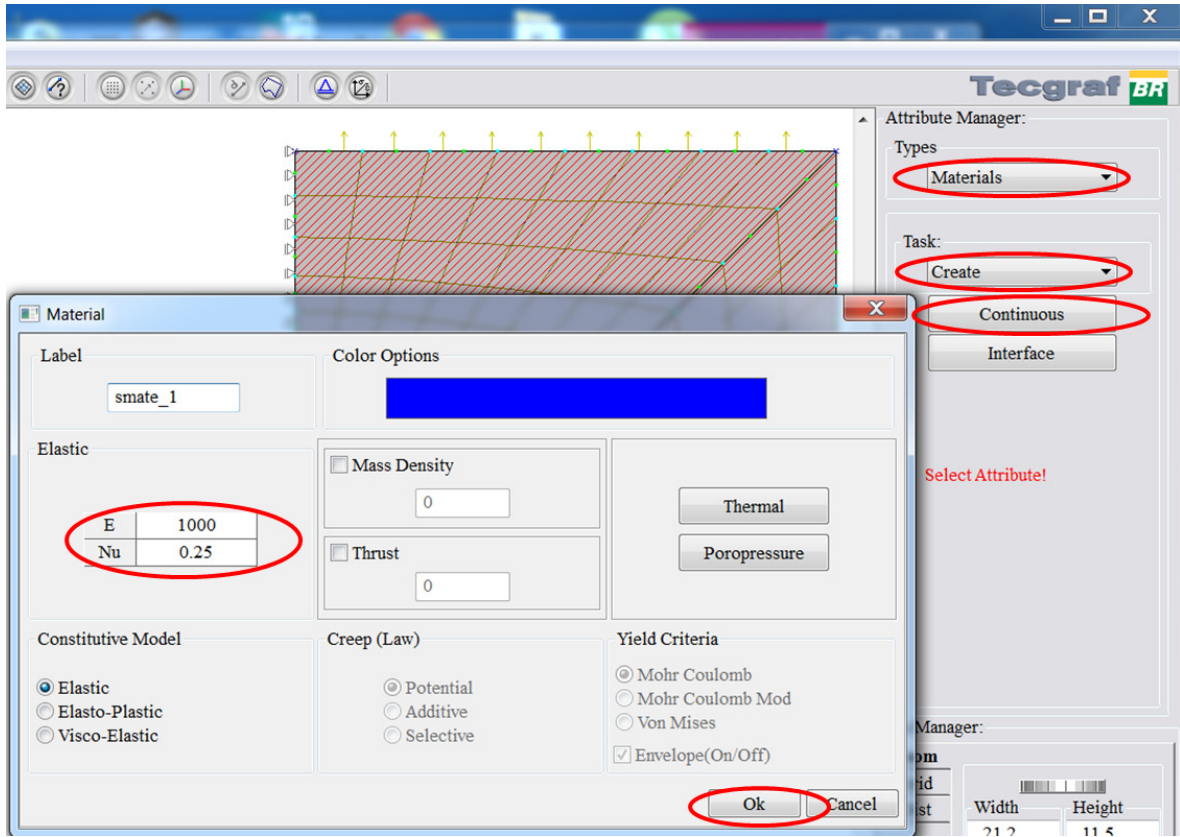


### Visualização da pressão na aresta



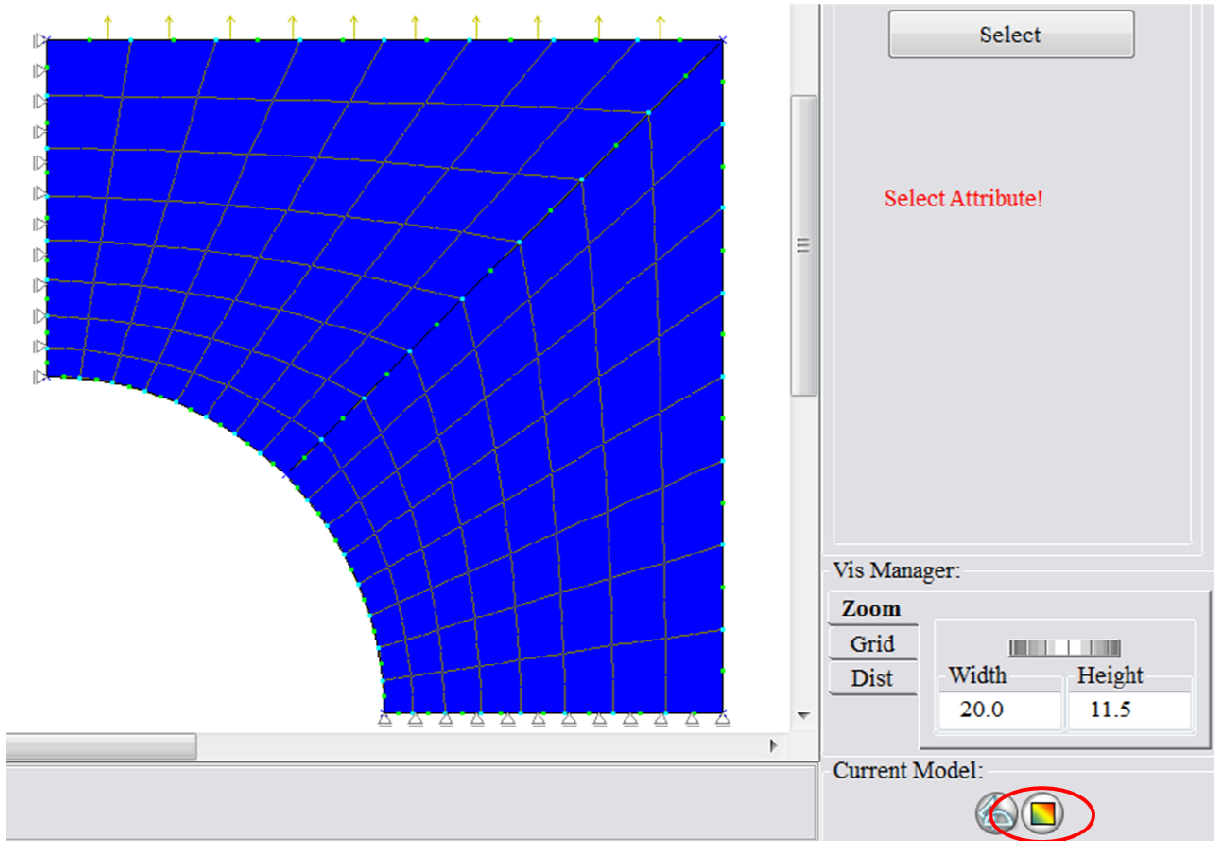


### Criação de material e aplicação de material/propriedade na face

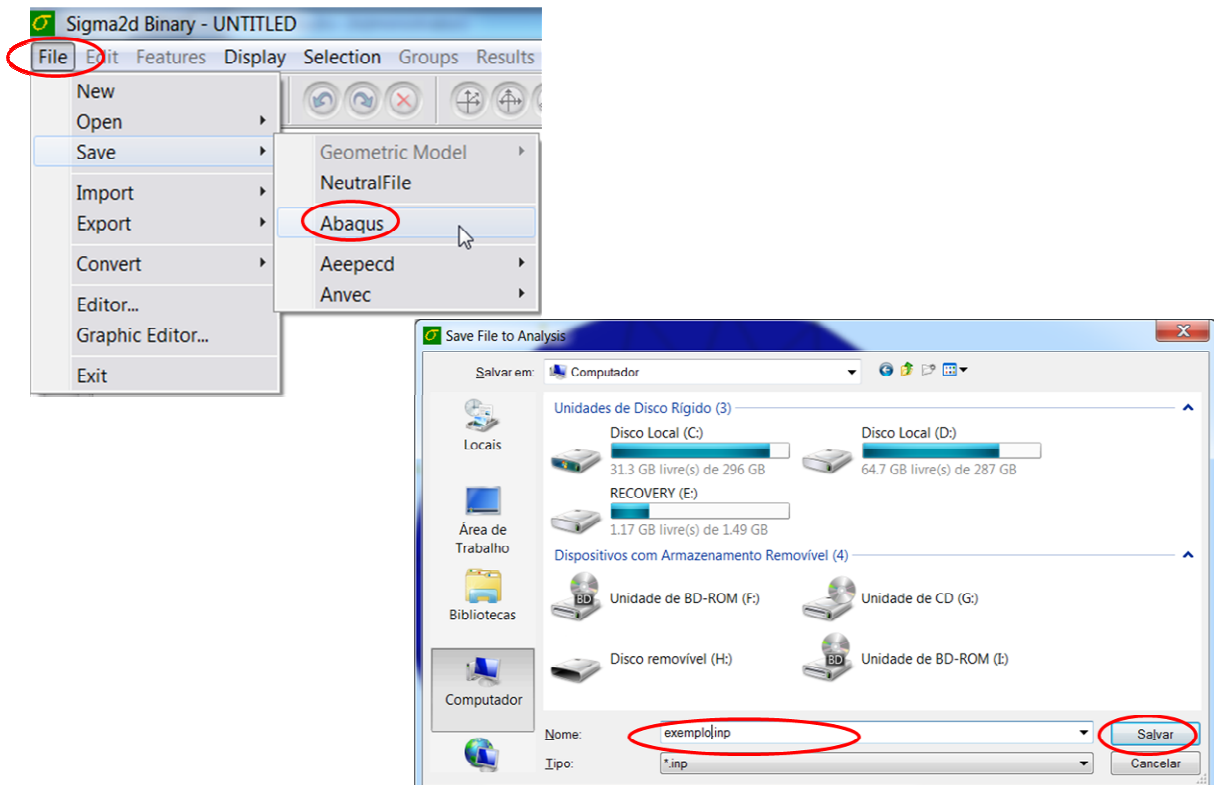




### Ir para o modo de malha

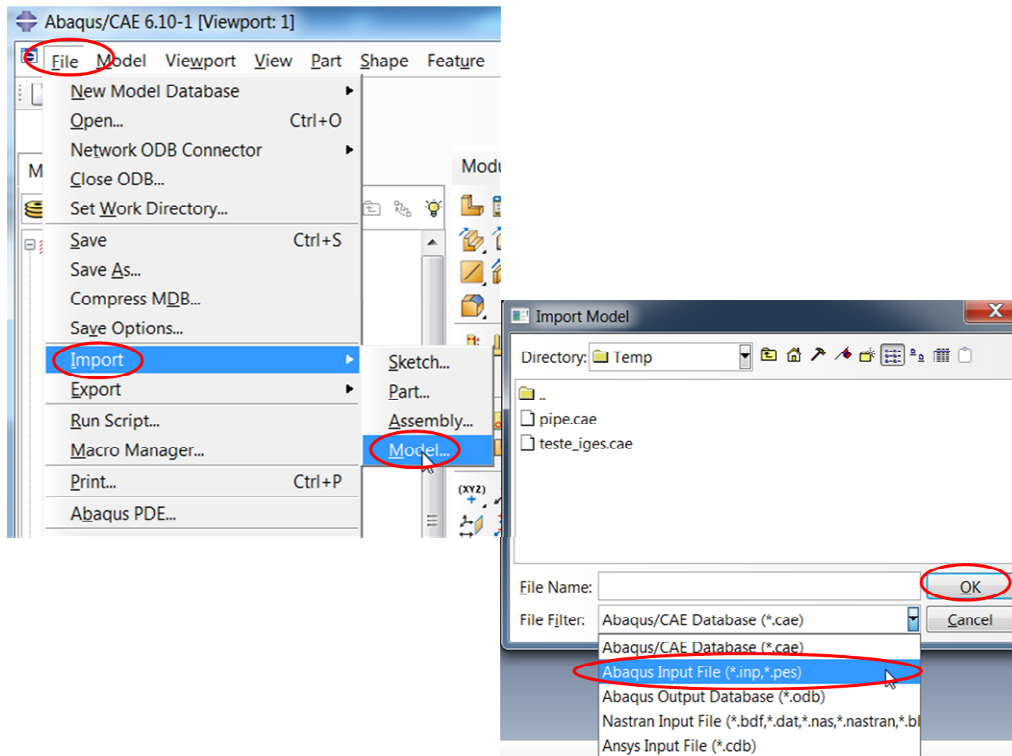


### Exportar modelo para arquivo do Abaqus .inp

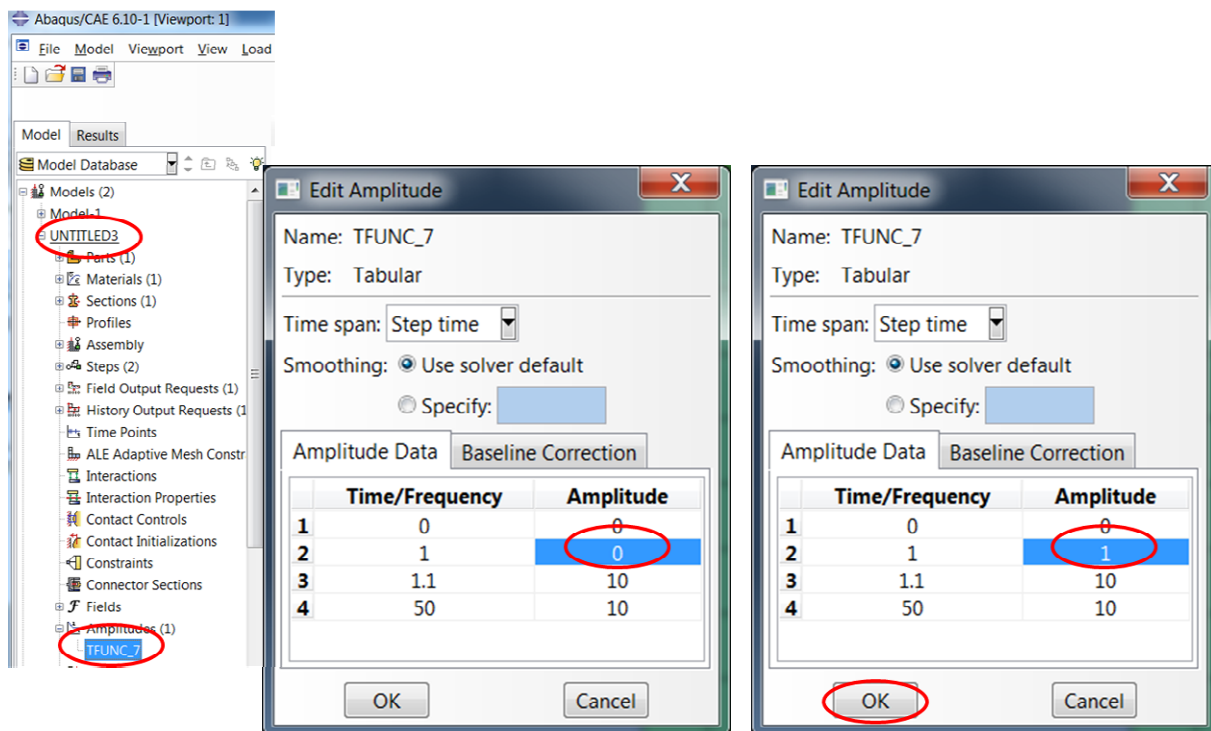




## Importa modelo programa Abaqus/CAE



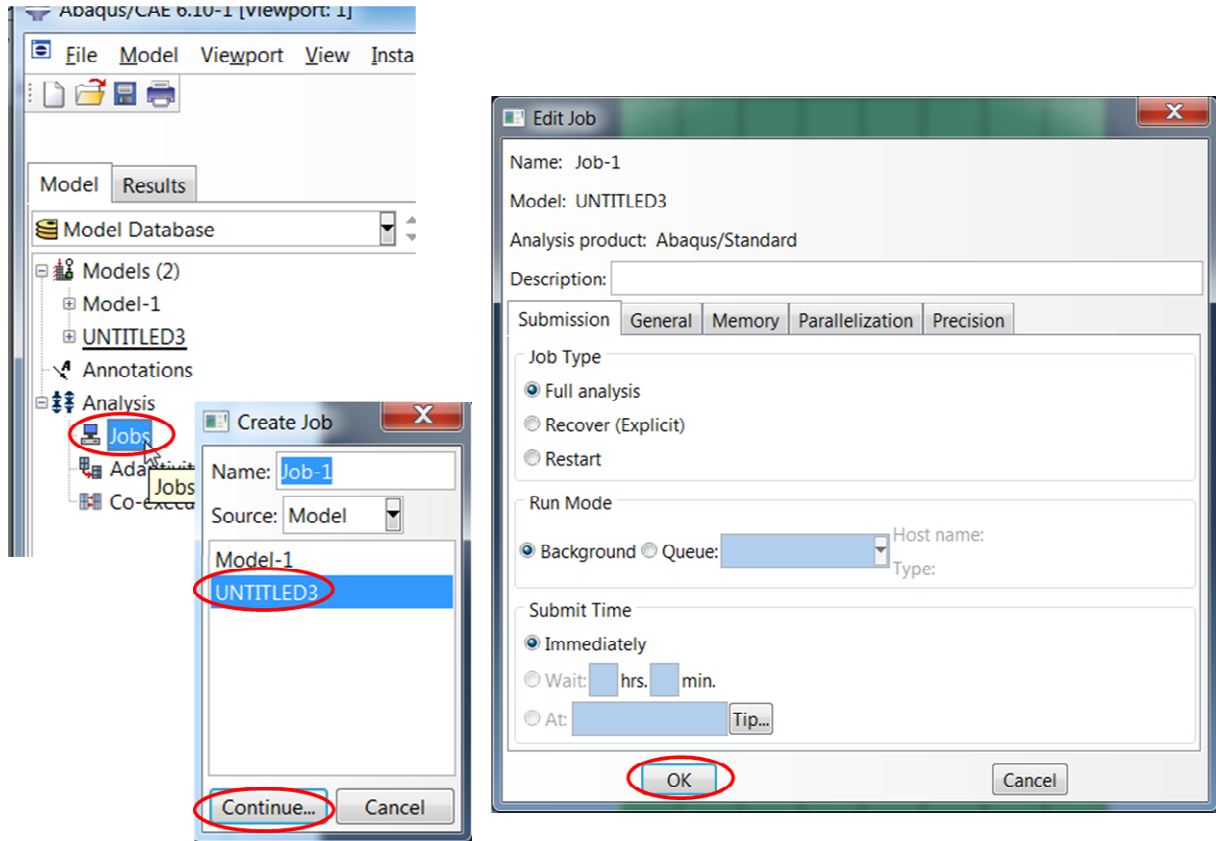
## Verificar se função de carga está correta



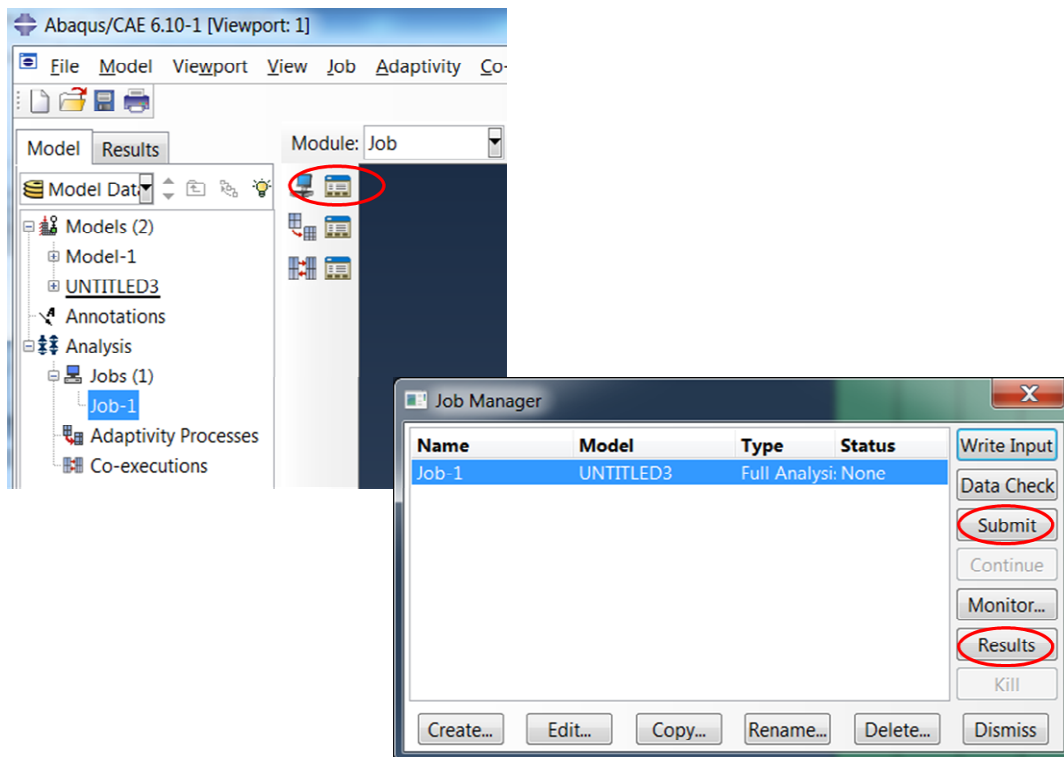




### Criar um “Job” para poder rodar uma análise linear elástica



### Submeter análise e depois pedir para visualizar os resultados





## Visualizar os resultados

