



SER 300 – Introdução ao Geoprocessamento

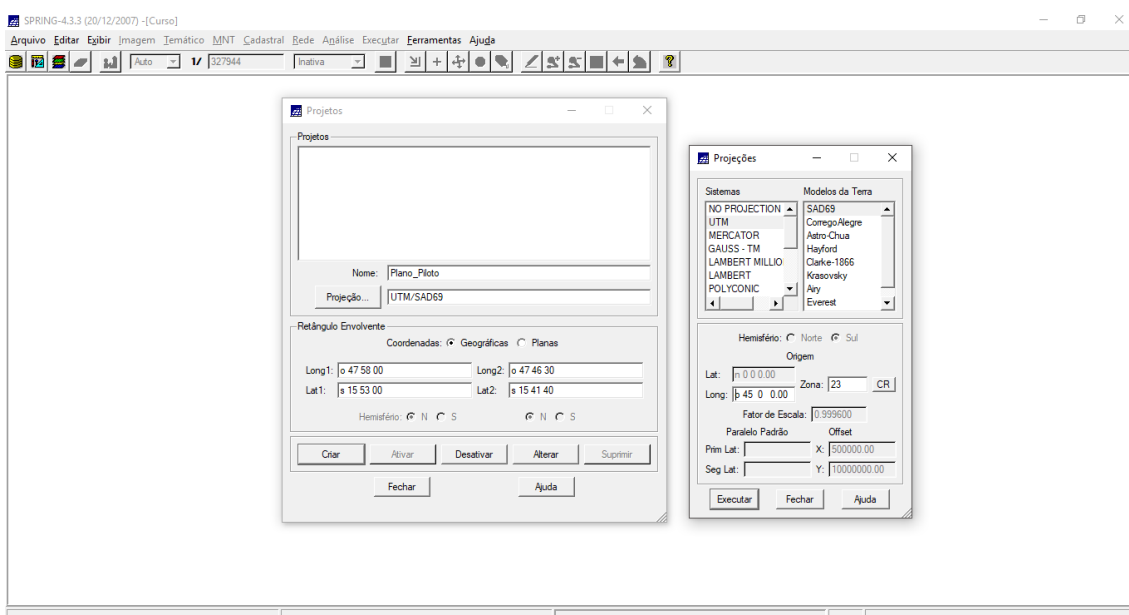
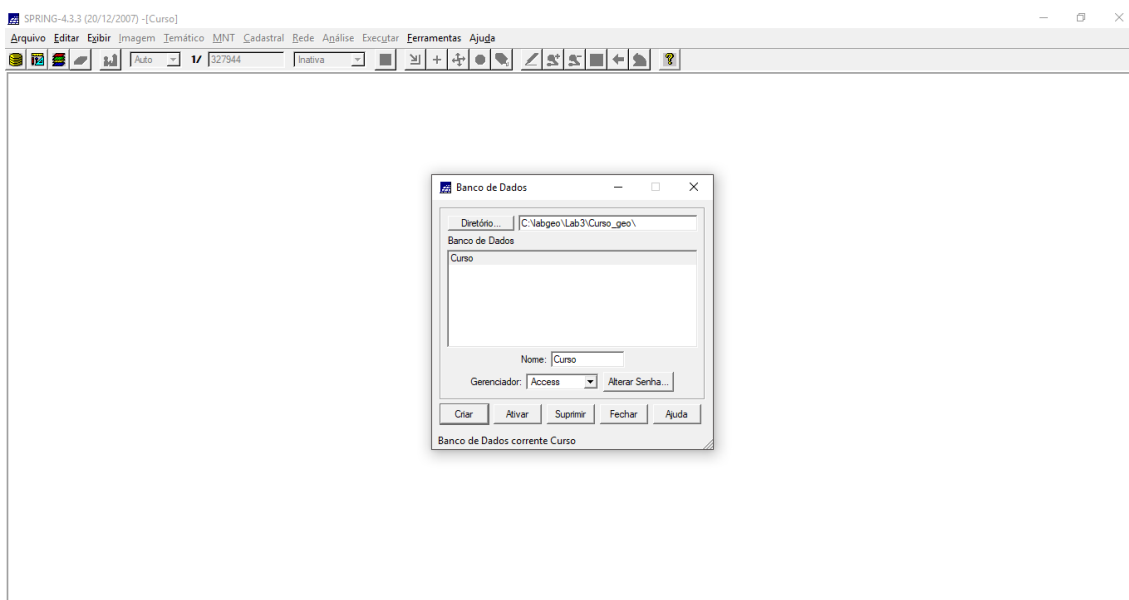
Ana Lígia do Nascimento Martins

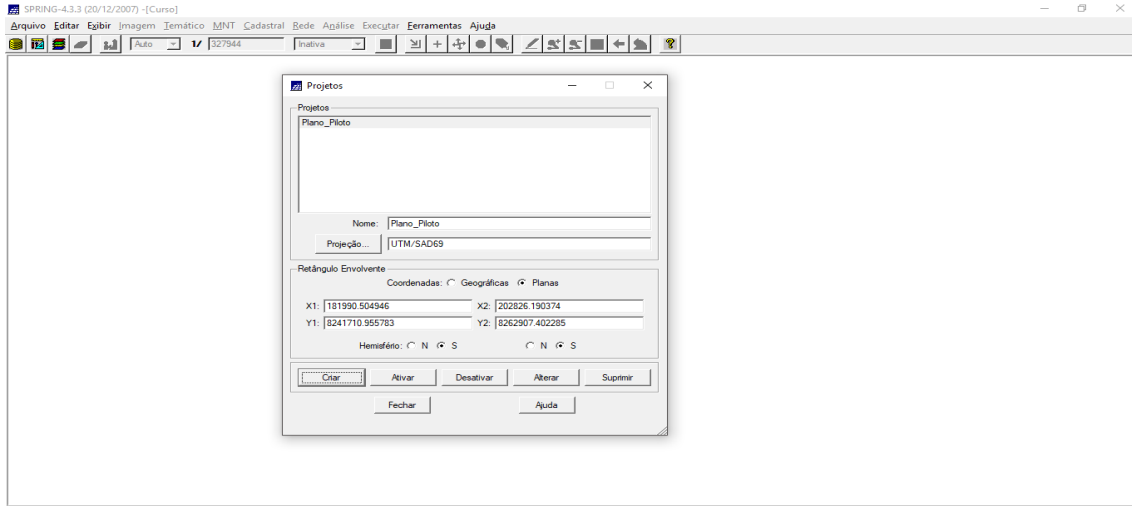
Matrícula Nº 142743

LABORATÓRIO 3 – EXERCÍCIOS PRÁTICOS DE MNT

Exercício 1 - Definindo o Plano Piloto para o Aplicativo 1:

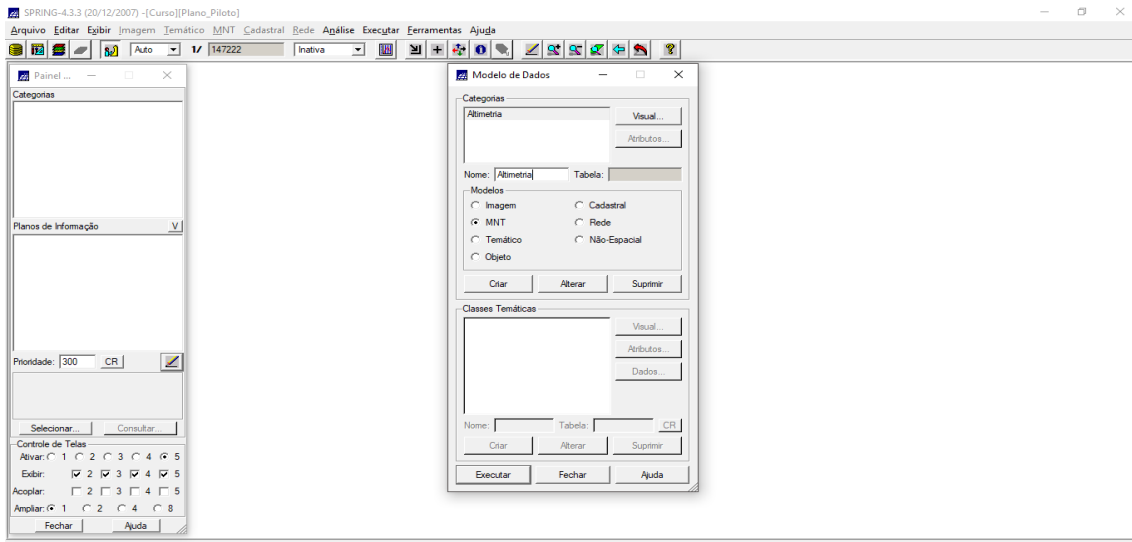
Criando o Banco Curso e o Projeto Plano Piloto:



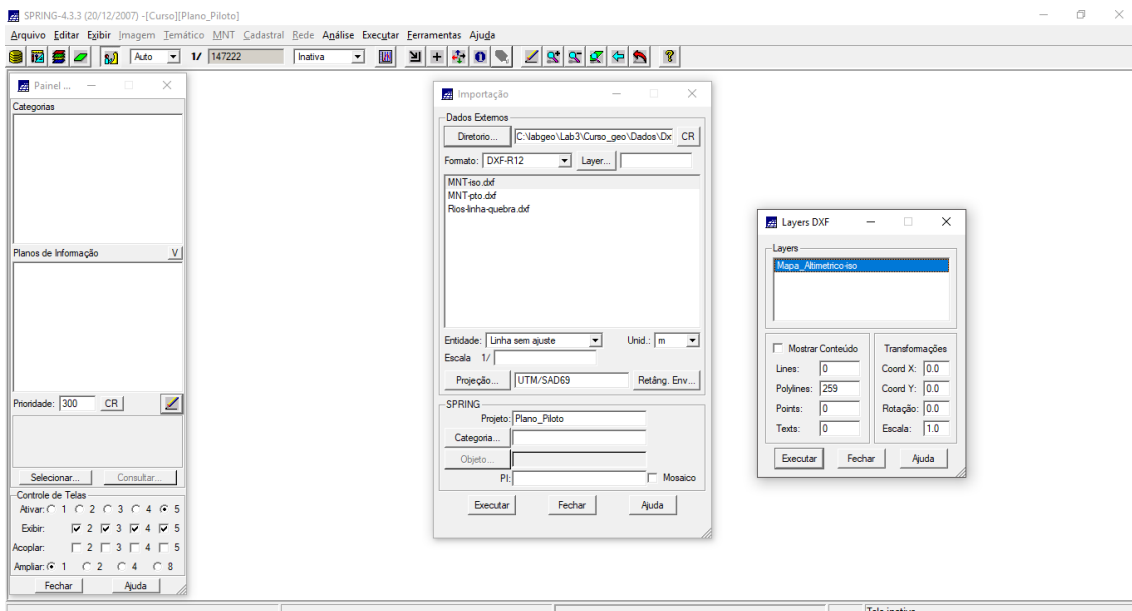


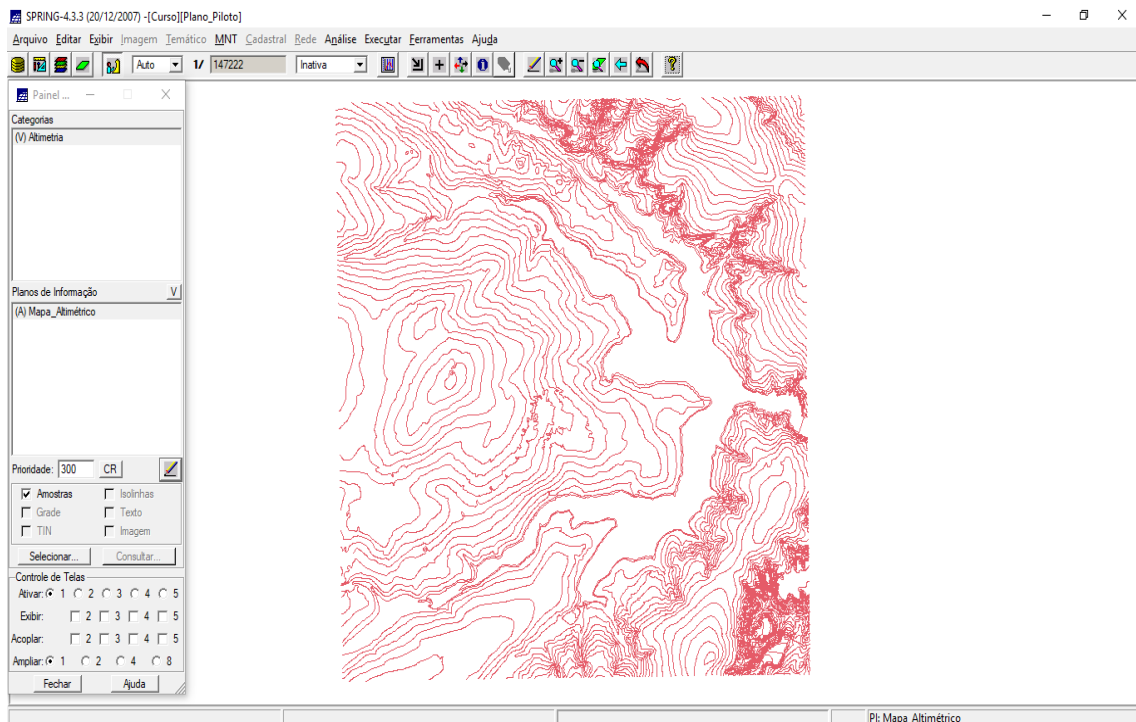
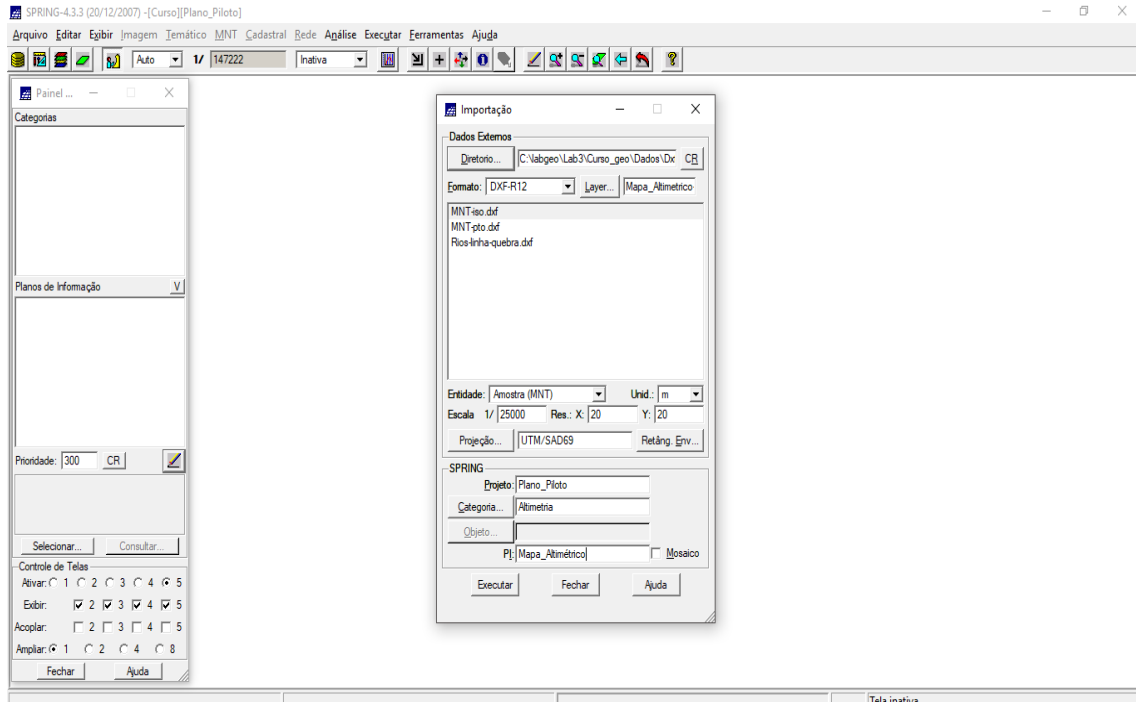
Exercício 2 - Importação amostras de modelo numérico de terreno

Passo 1 - Importando arquivo DXF com isolinhas num PI numérico



Importando isolinhas de arquivo DXF:

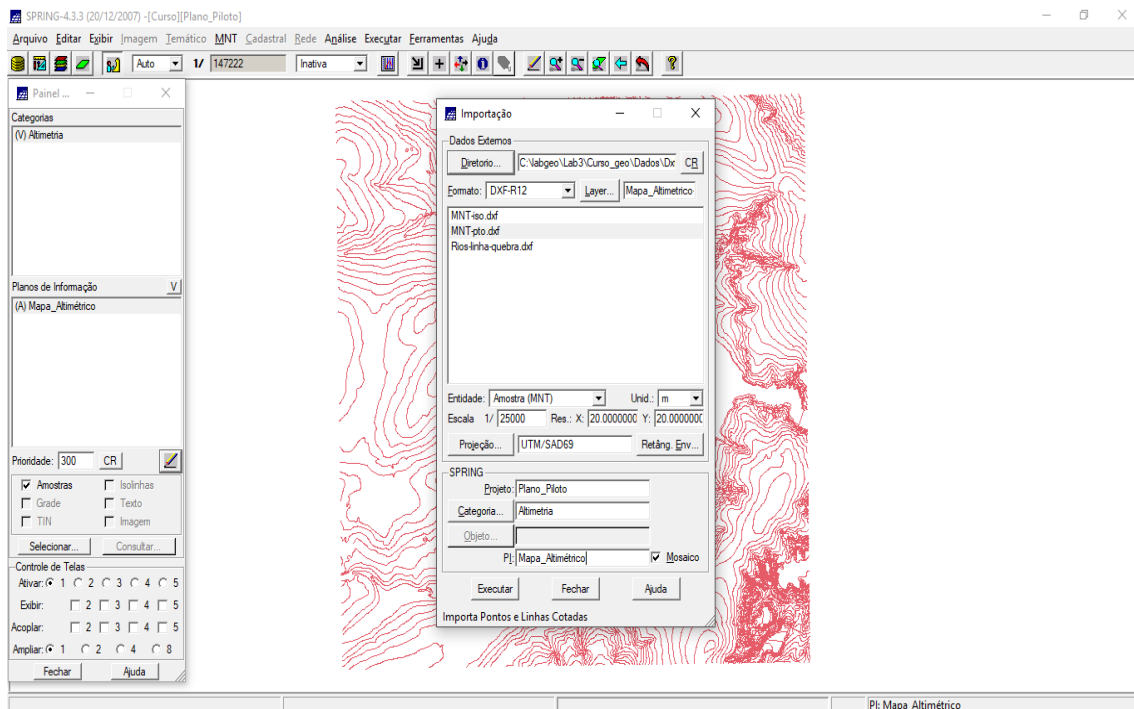
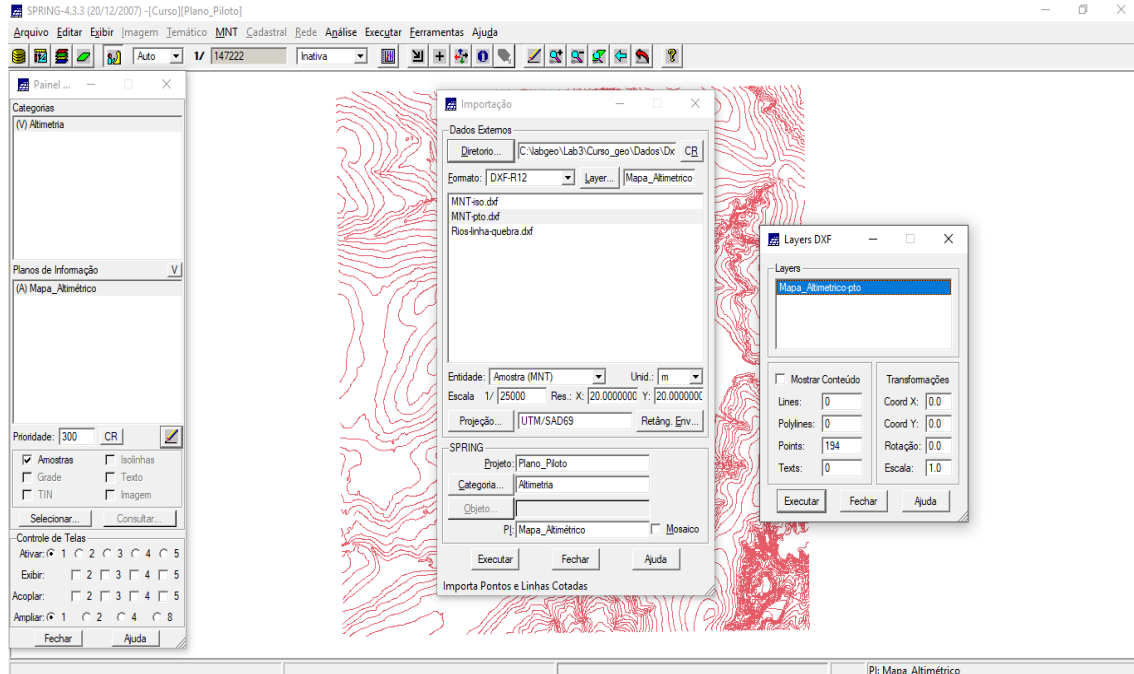






Passo 2 - Importar arquivo DXF com pontos cotados no mesmo PI das isolinhas

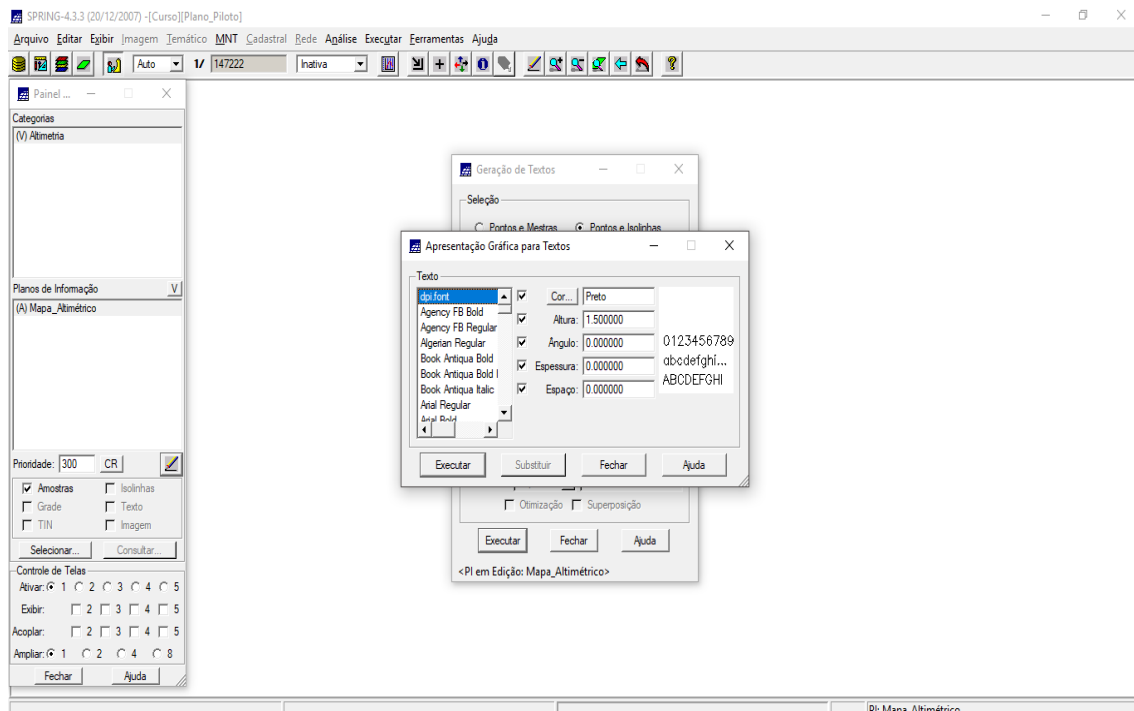
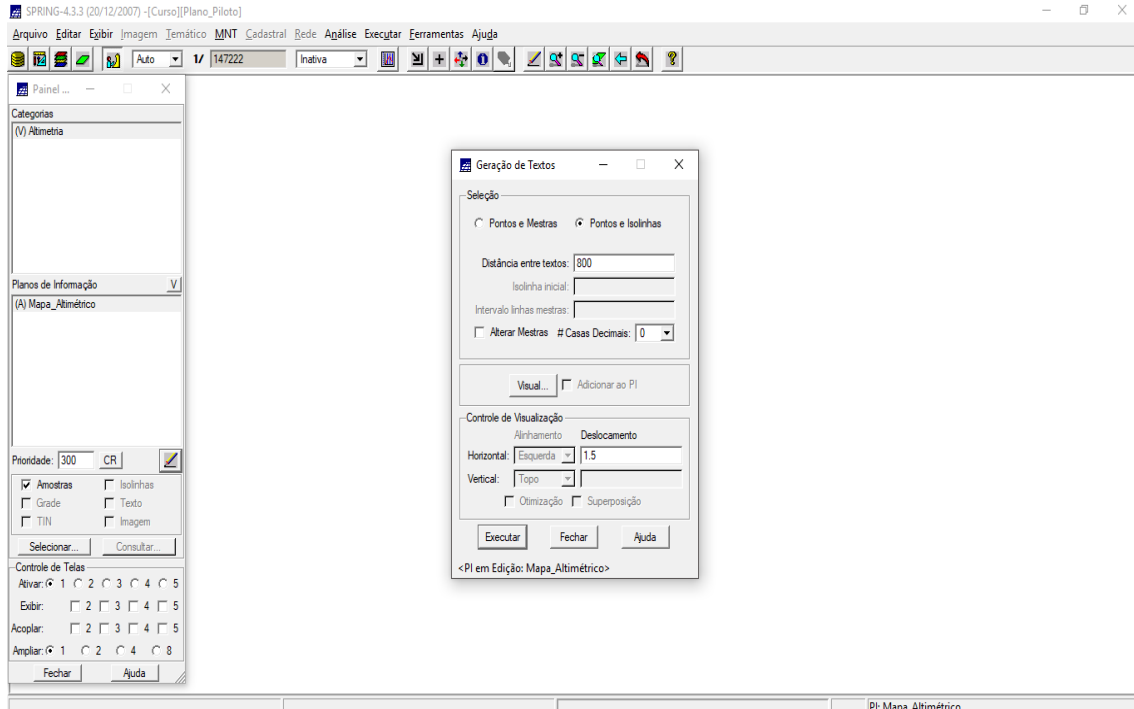
Importando pontos cotados de arquivo DXF





Passo 3 - Gerar toponímia para amostras

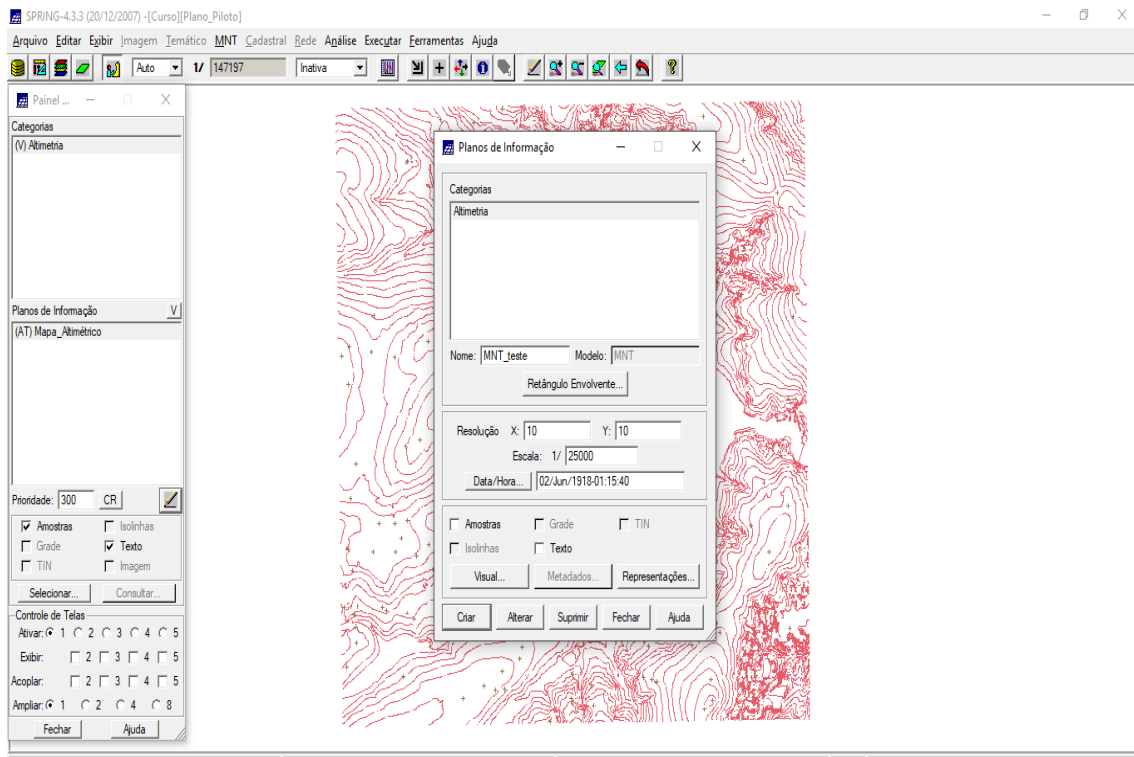
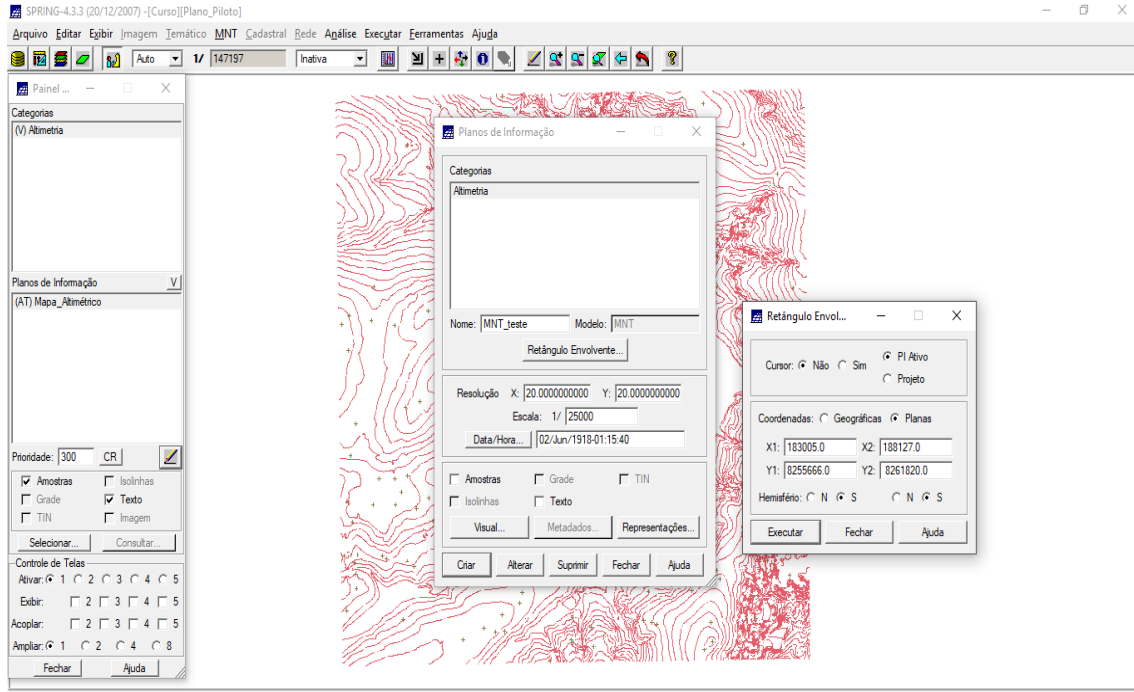
Gerando textos p/ amostras de PI numérico:





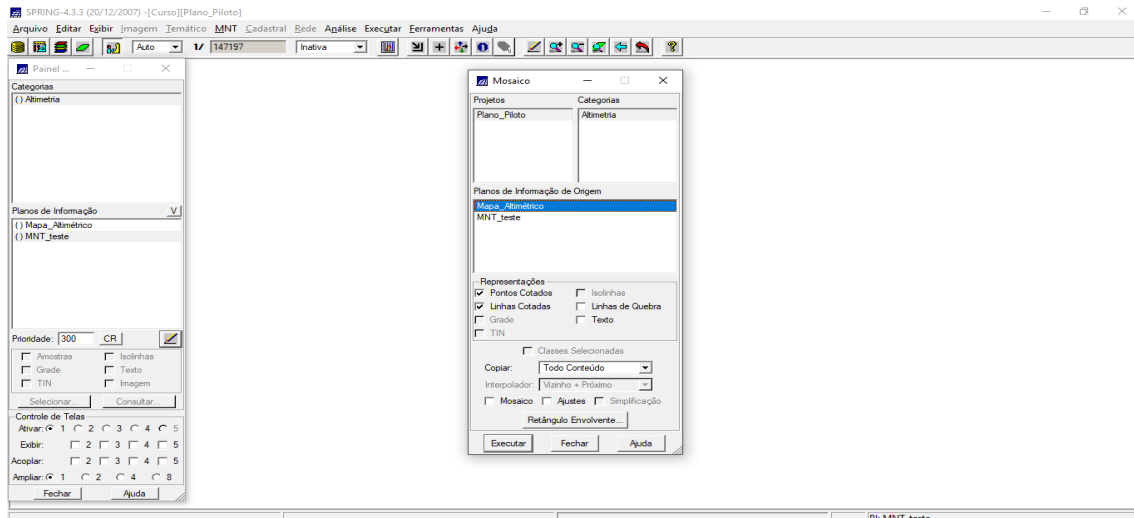
Exercício 3 - Edição de modelo numérico de terreno

Passo 1 – Criando um novo PI numérico e fazendo cópia do mapa altimétrico

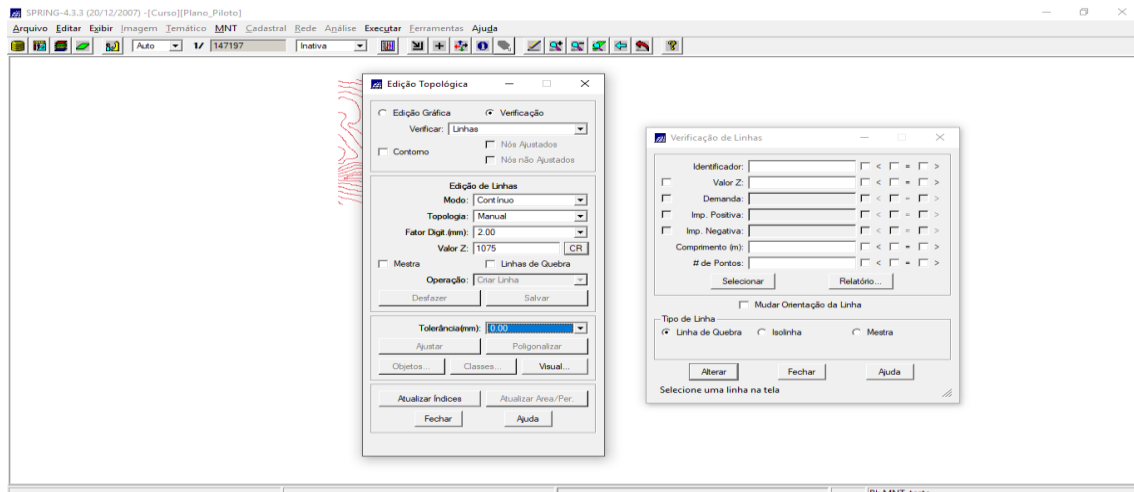




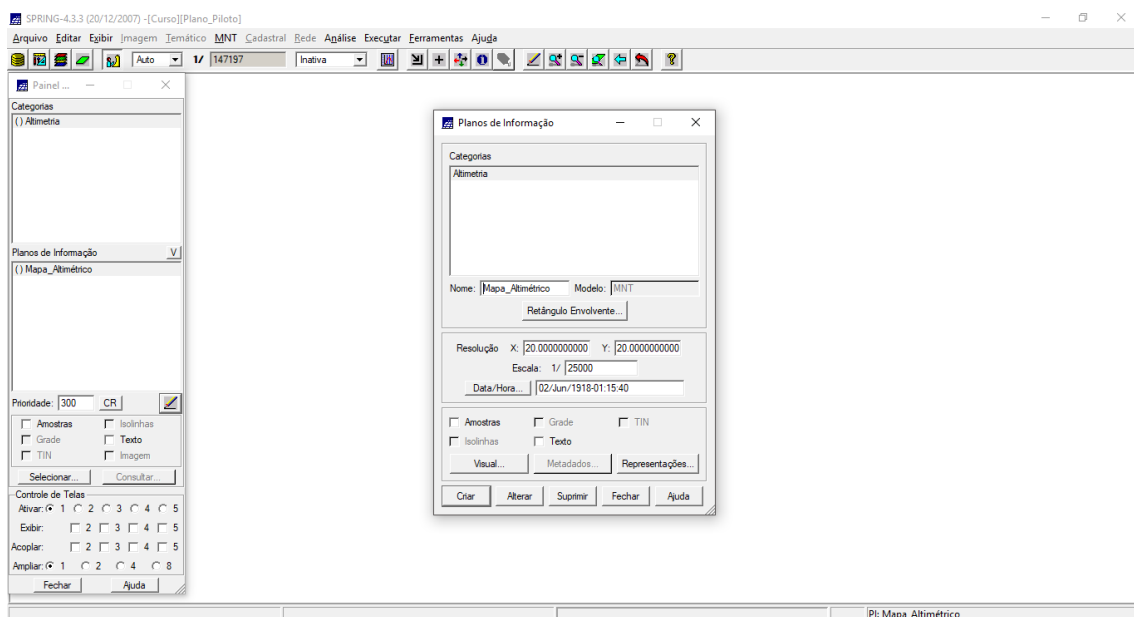
Copiando dados de um PI para outro:



Passo 2 - Editando isolinhas e pontos cotados num PI numérico

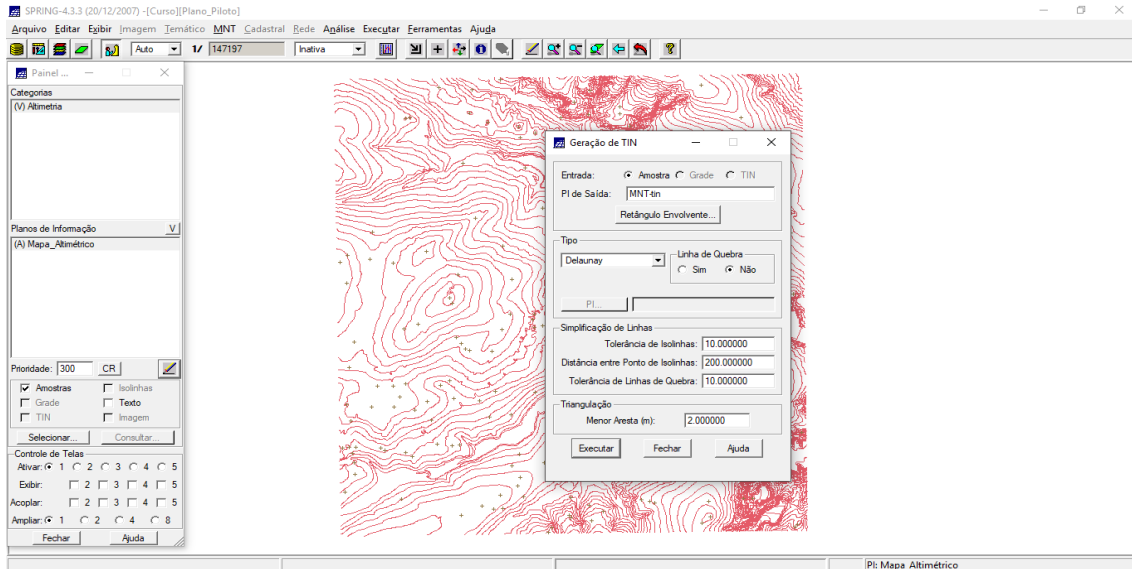


Passo 3 - Suprimindo o PI MNT_Test



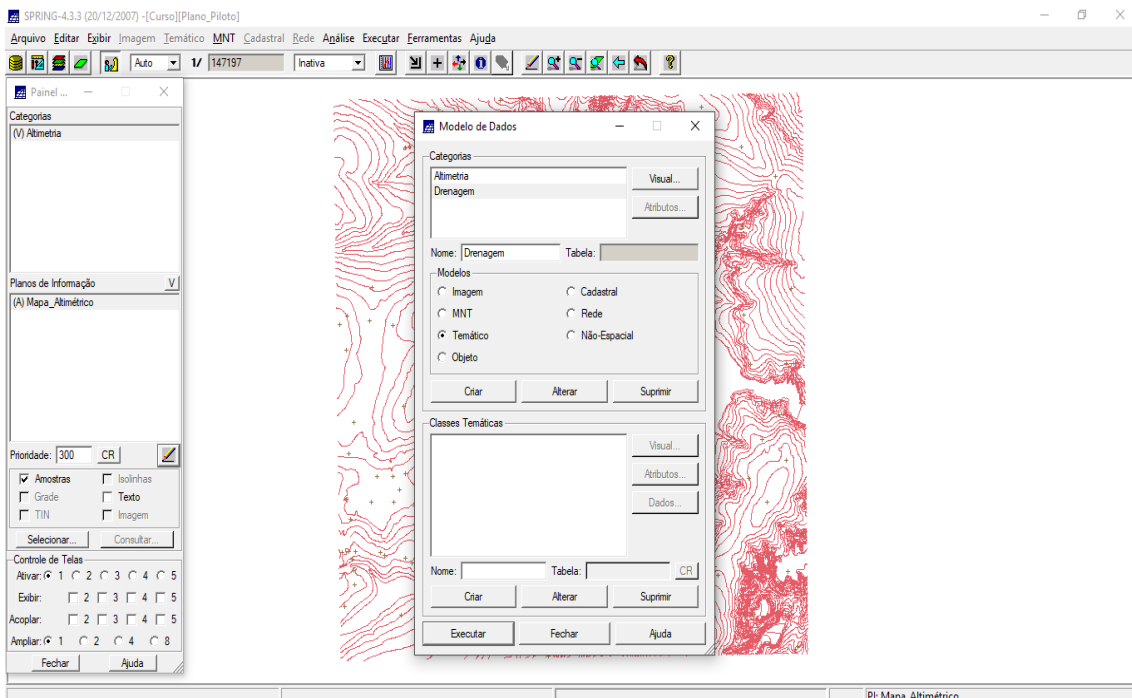
Exercício 4 - Gerar grade triangular com e sem linha de quebra

Geração de Grade Triangular sem linha de quebra:

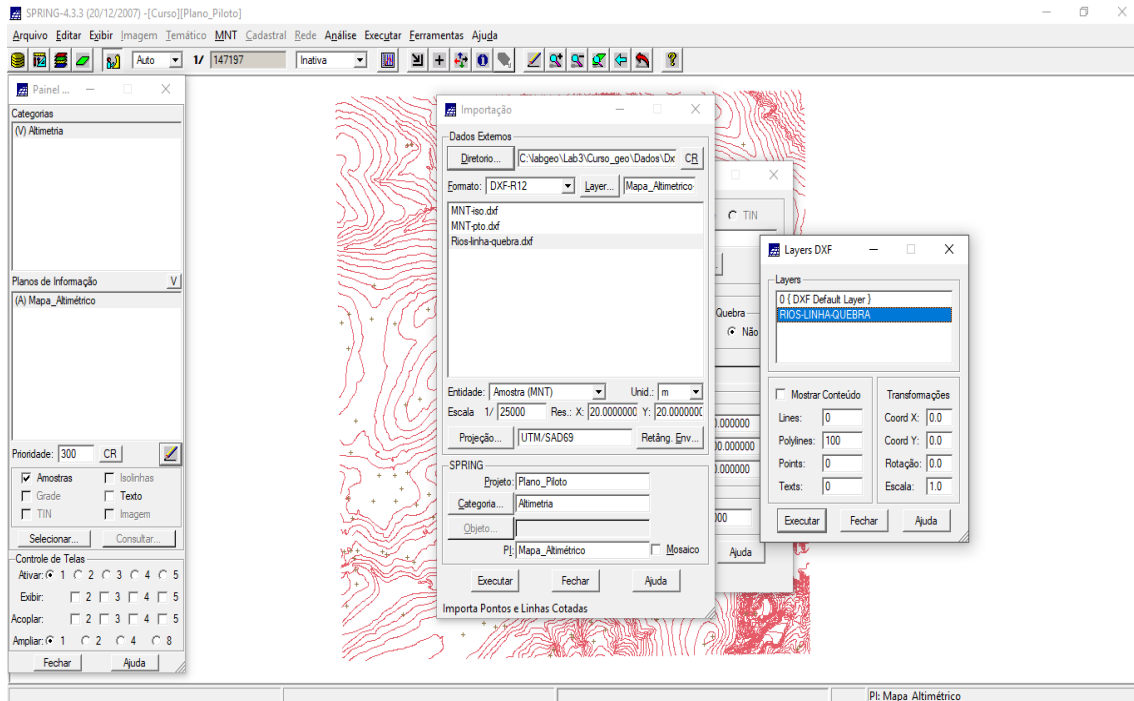


Passo 1 - Importar a drenagem de arquivo DXF para PI temático

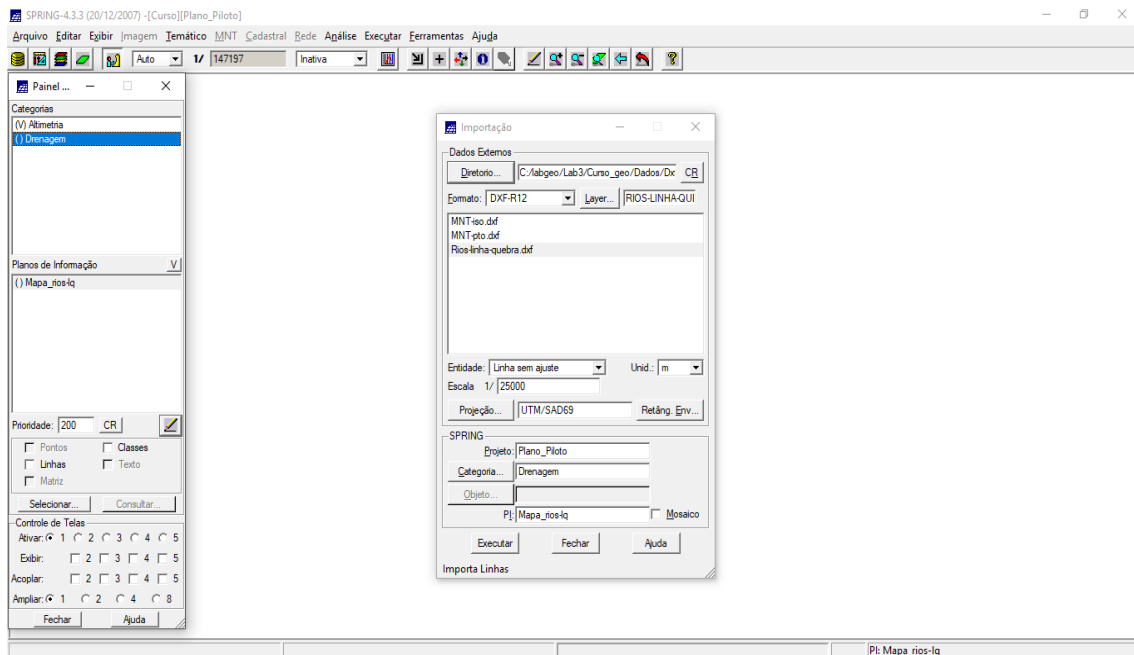
Deverá ser criada uma categoria temática com nome Drenagem com as classes que estão presentes no arquivo dxf referenciado abaixo.



Importando linhas de drenagem de arquivo DXF:

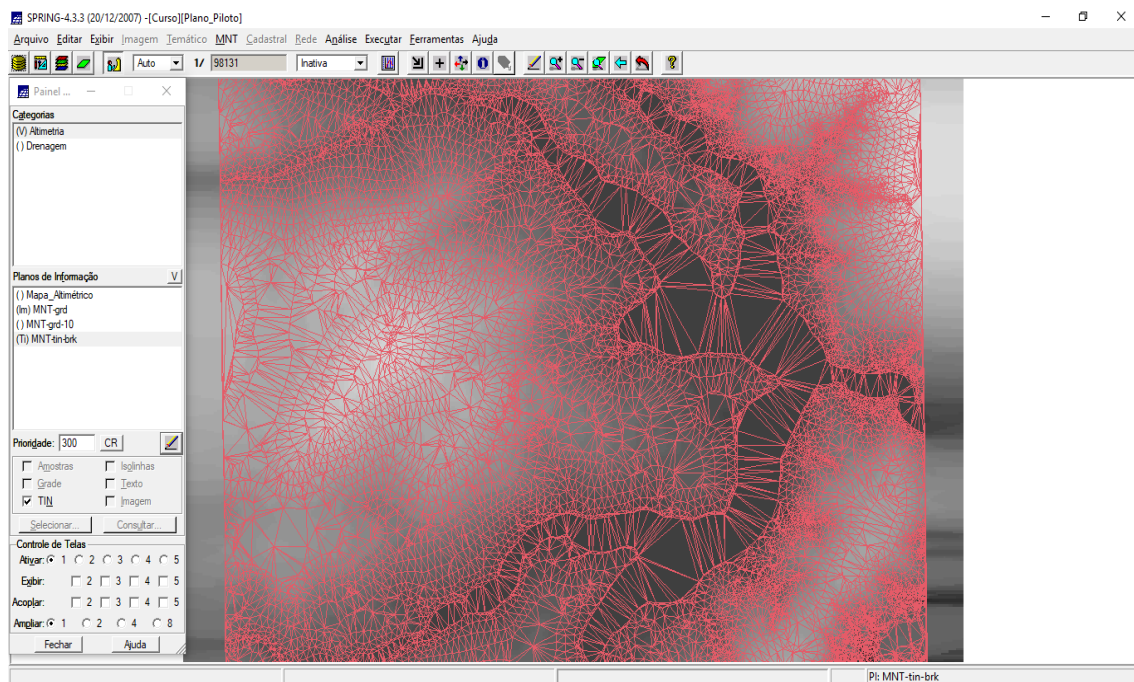
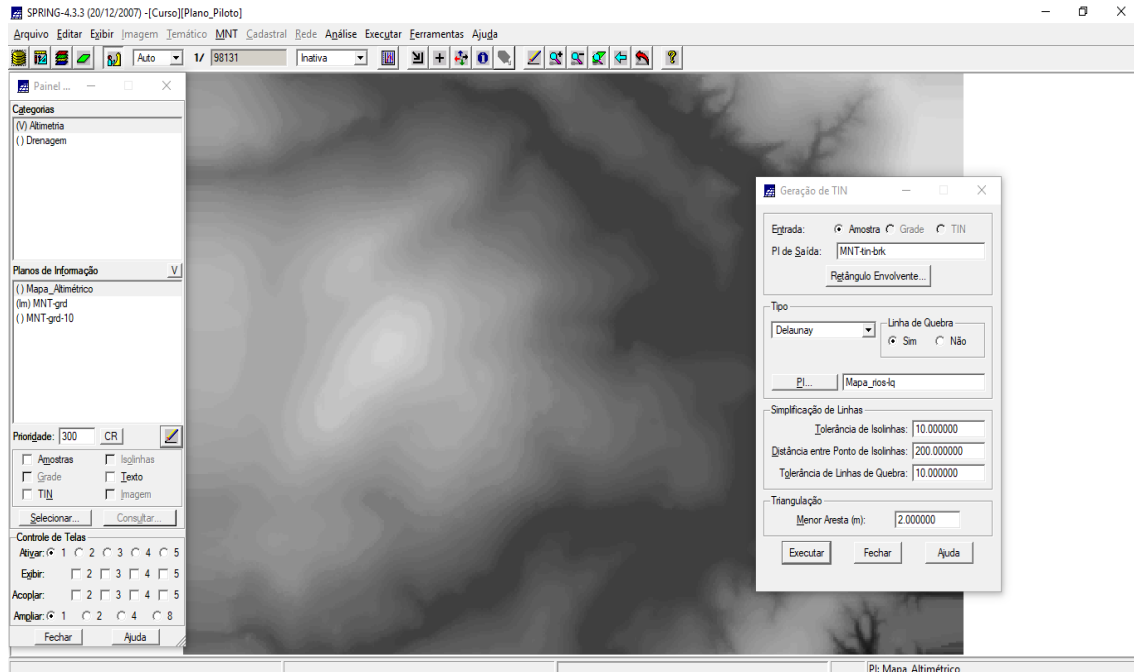


Importando linhas de drenagem de arquivo DXF:



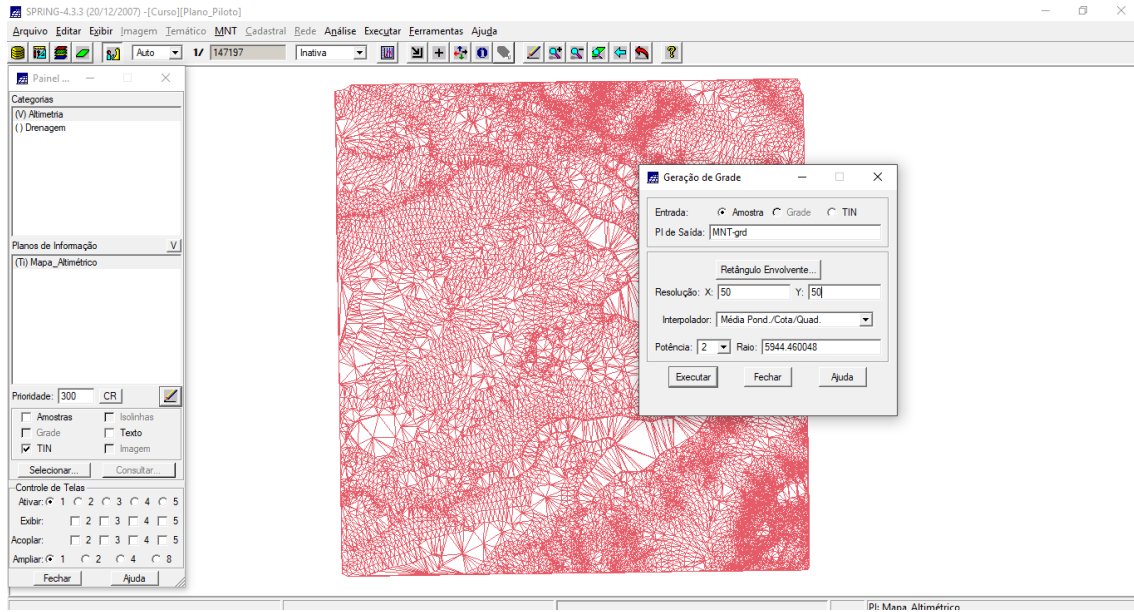
Passo 2 - Gerando grade triangular utilizando o PI drenagem como linha de quebra

Gerando TIN com linhas de quebra

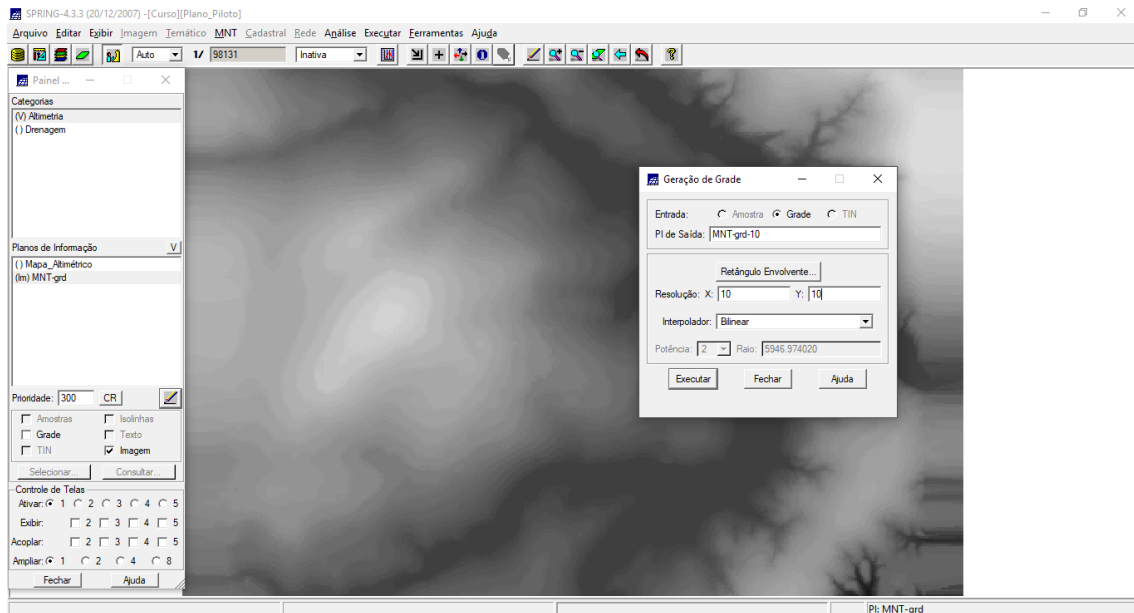


Exercício 5 - Gerar grades retangulares de amostras e de outras grades

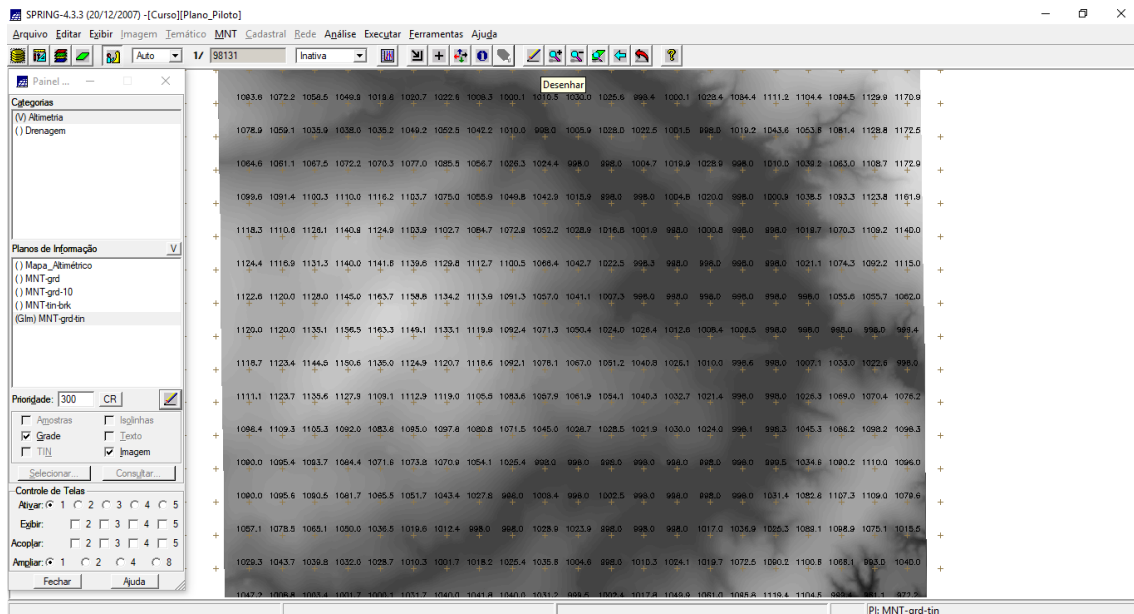
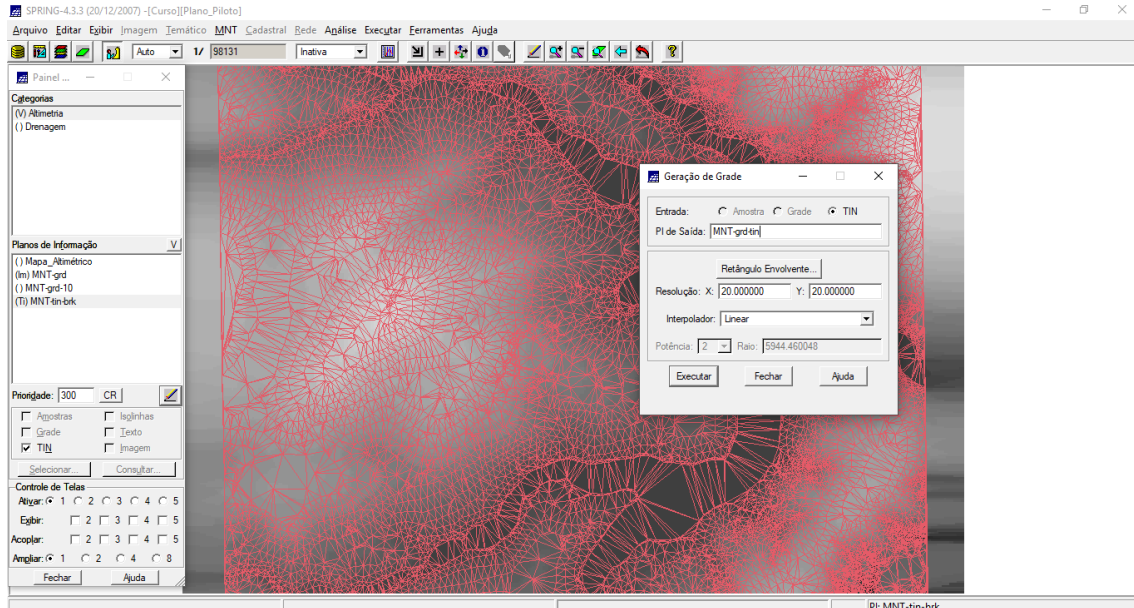
Geração de Grade Retangular:



Refinando a grade retangular a partir de outra grade retangular:

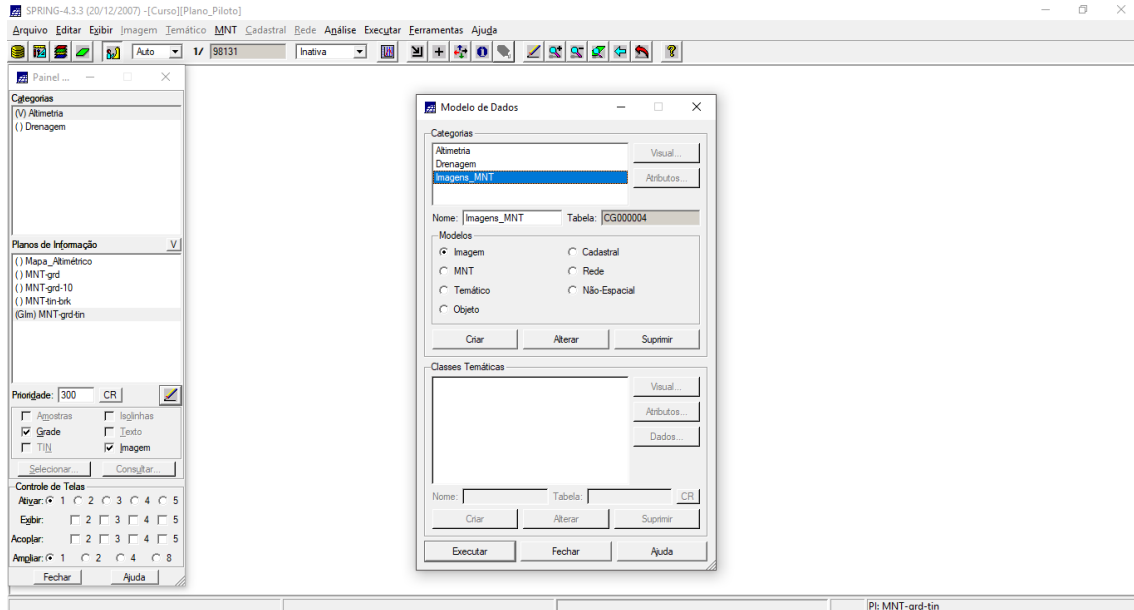


Gerando grade retangular a partir de grade triangular:

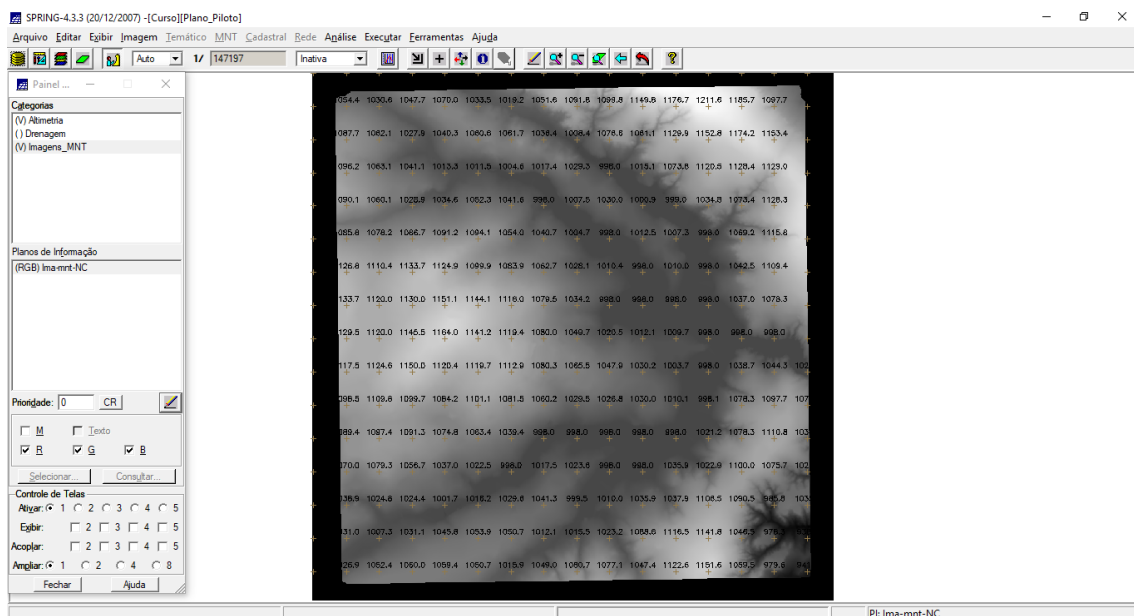
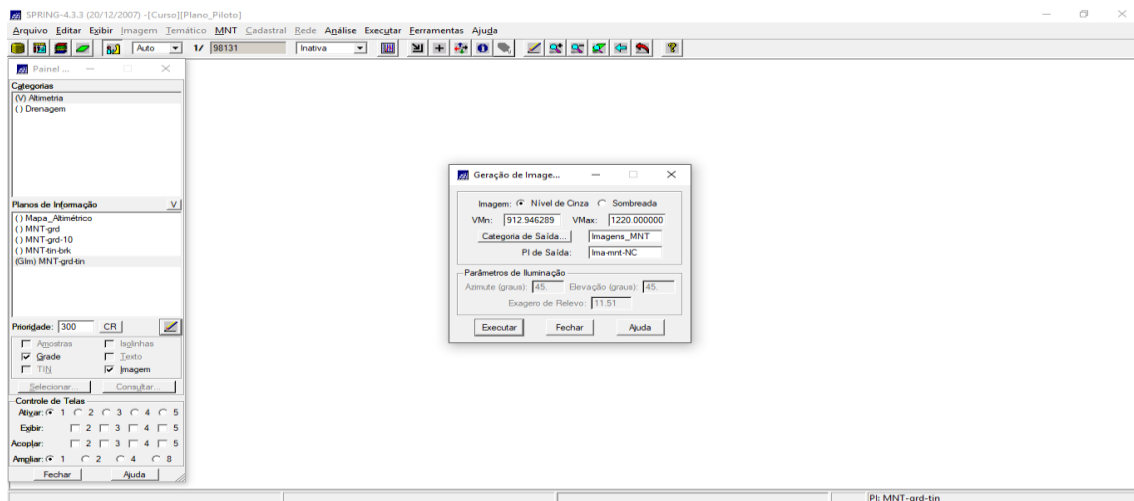


Exercício 6 - Geração de Imagem para Modelo Numérico

Neste caso, deverá ser criada uma nova categoria do modelo imagem no banco de dados, para não misturar com imagens da categoria "Imagem_TM".

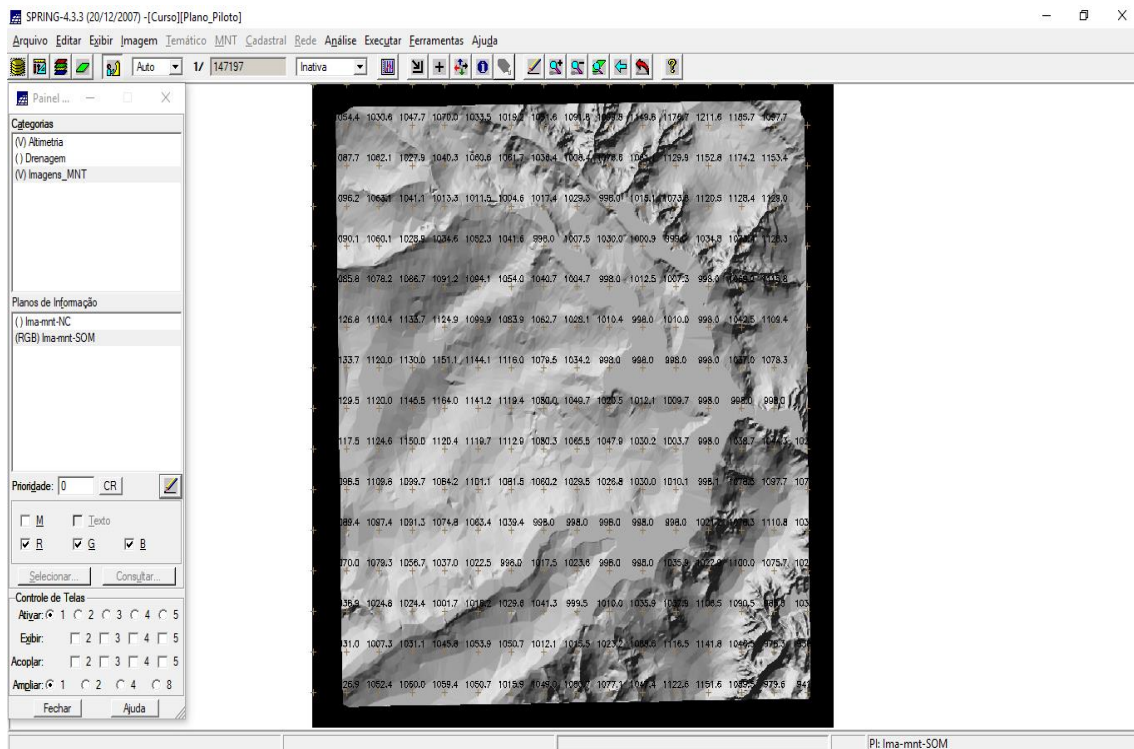
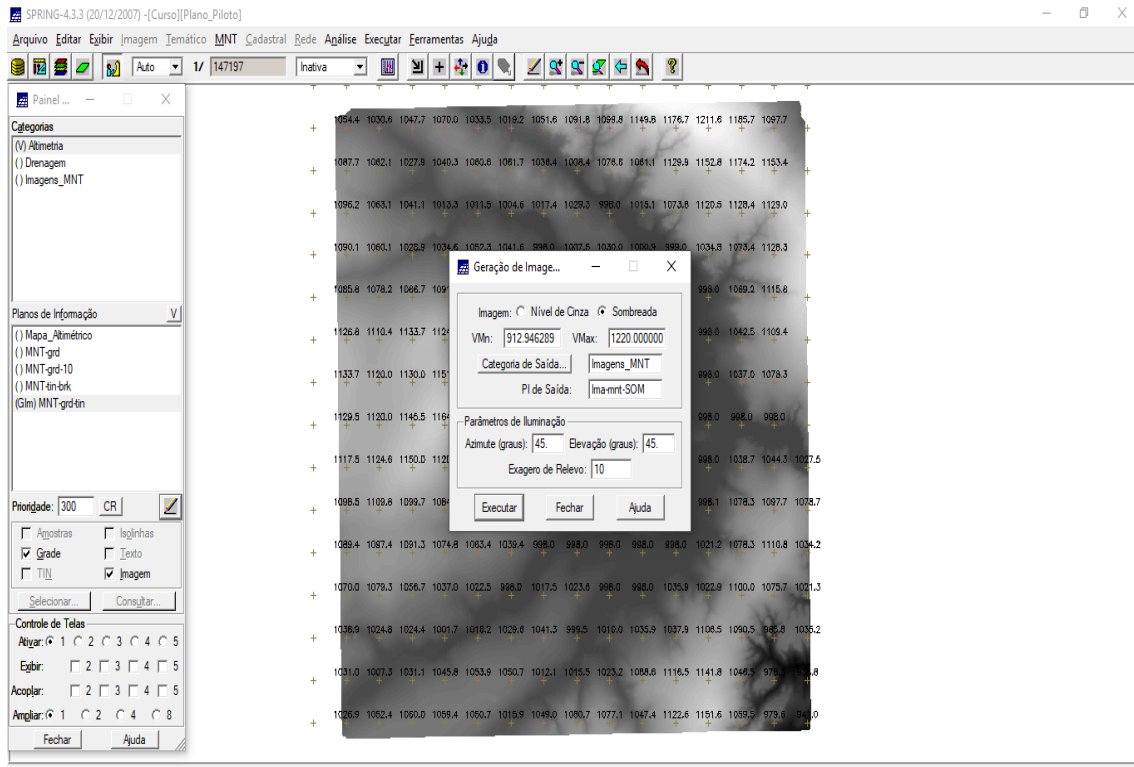


Gerando imagem em nível de cinza:





Gerando imagem sombreada:

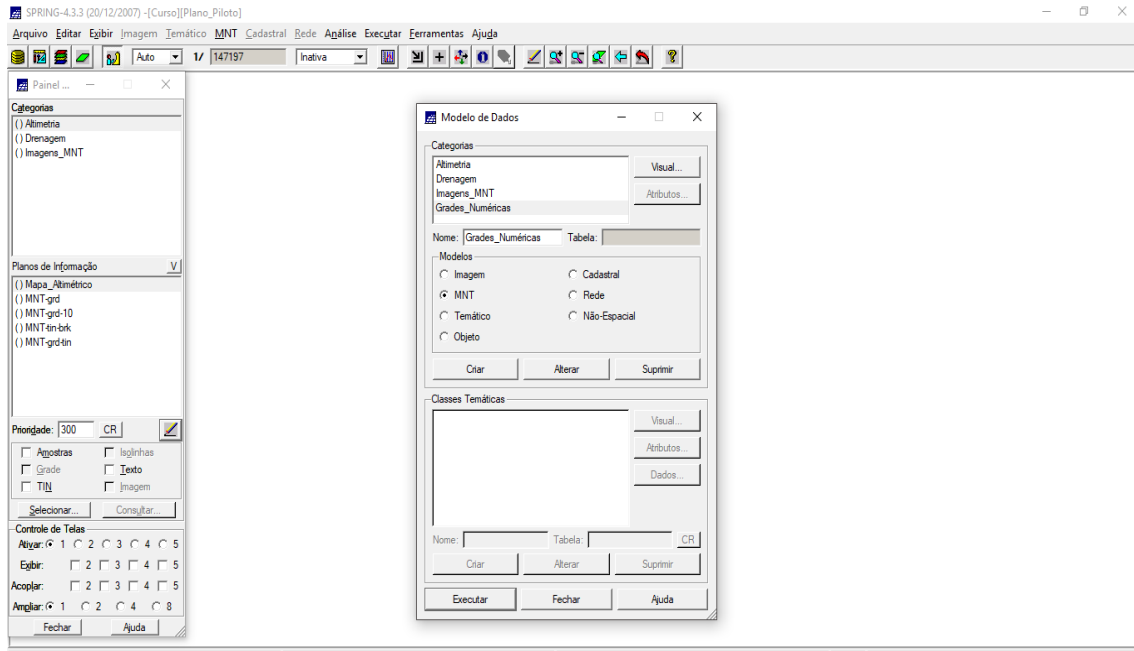




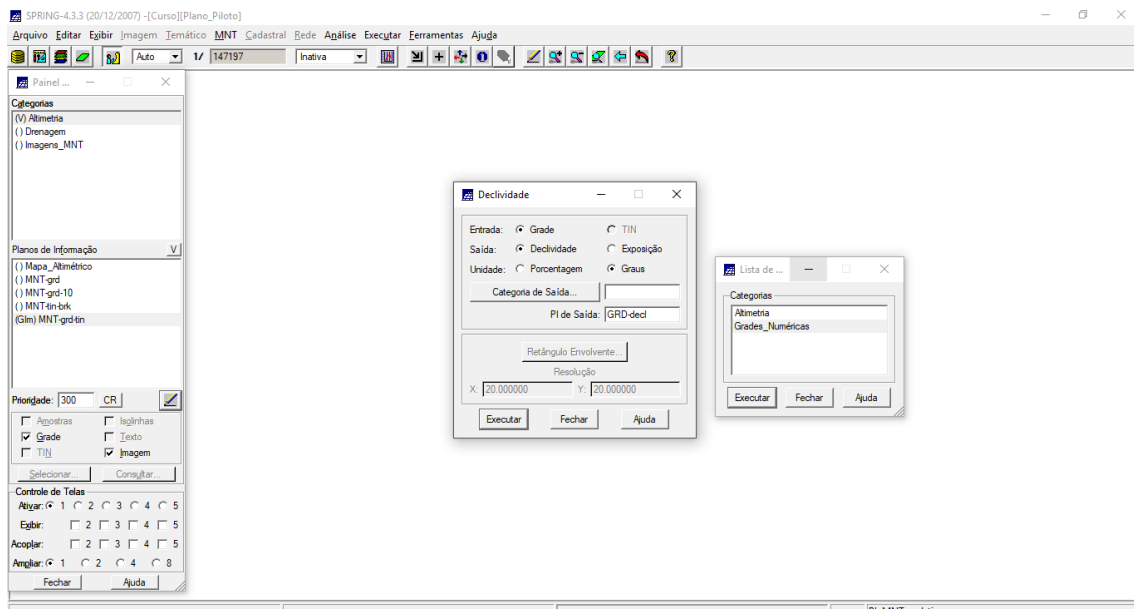
Exercício 7 - Geração de Grade Declividade

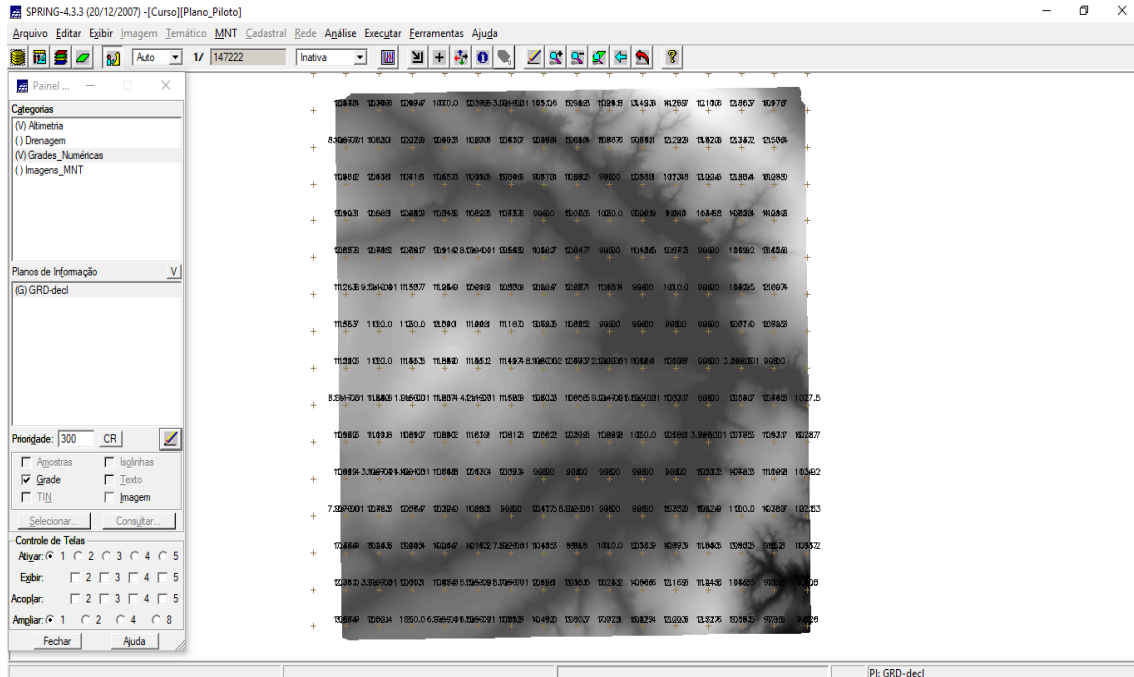
Geração de Grade de Declividade:

Crie uma categoria de nome Grades_Numéricas do modelo **Numérico**.



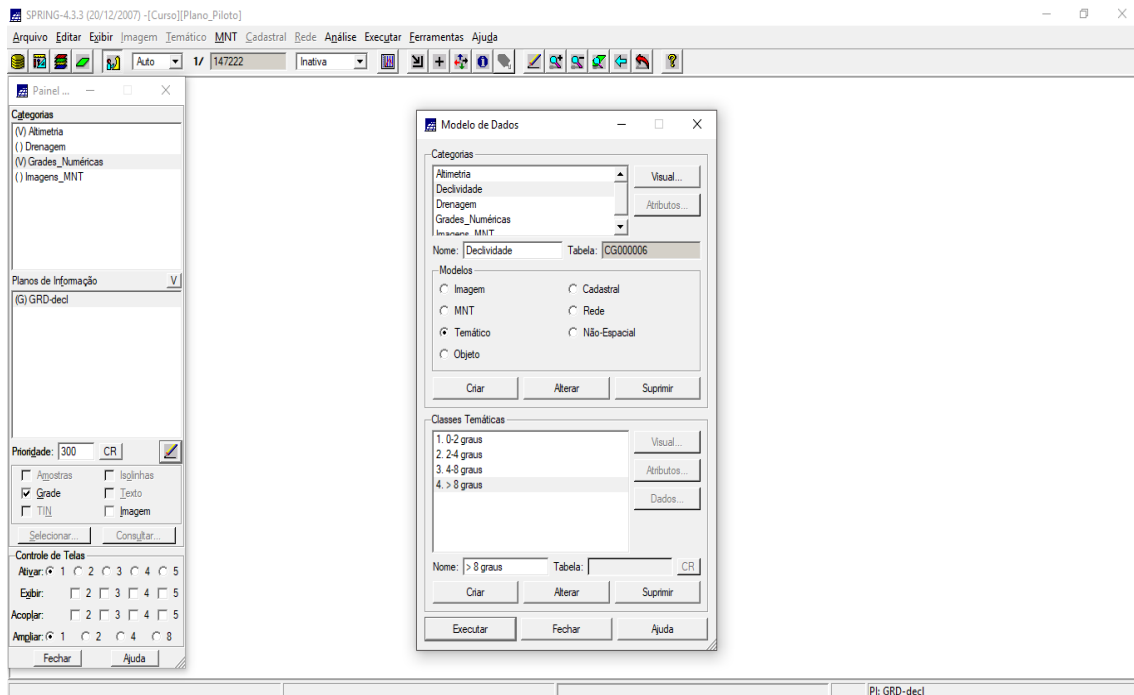
Gerando declividade em graus a partir de grade retangular:

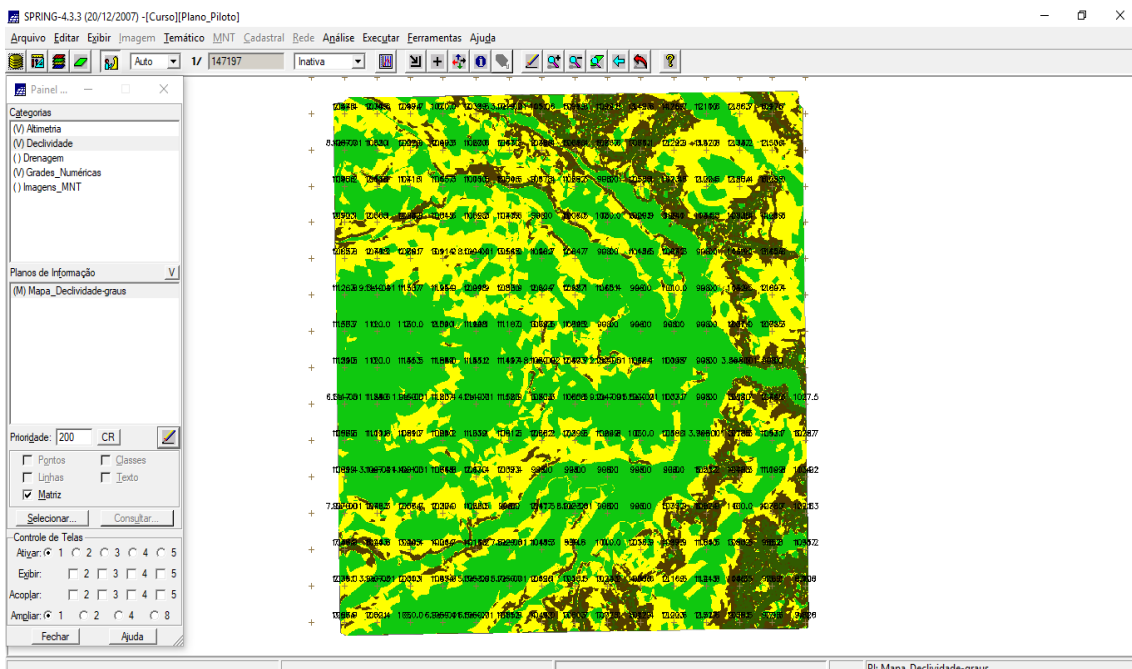
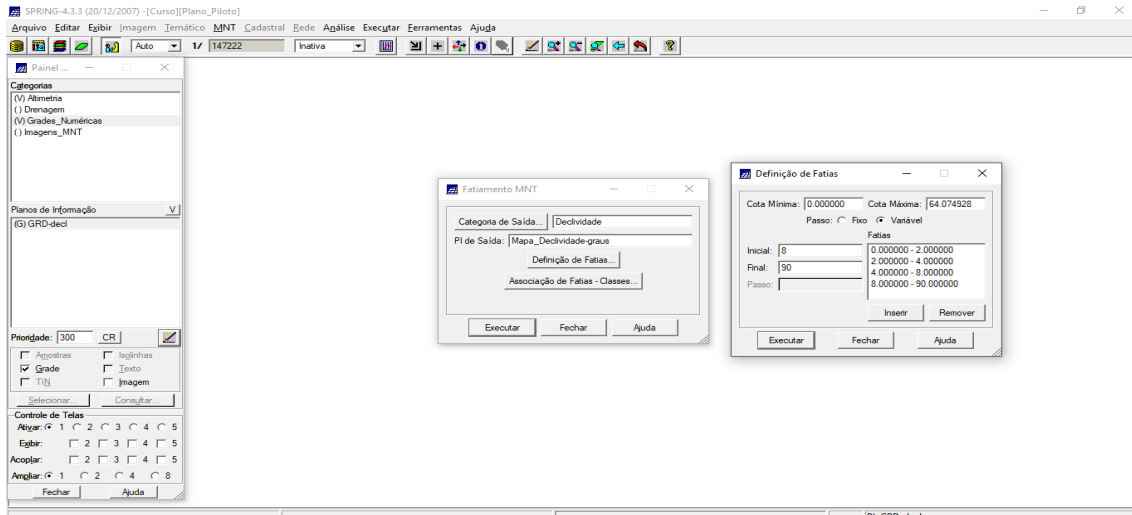




Exercício 8 - Fatiamento de Grade Numérica – Mapa de Declividade

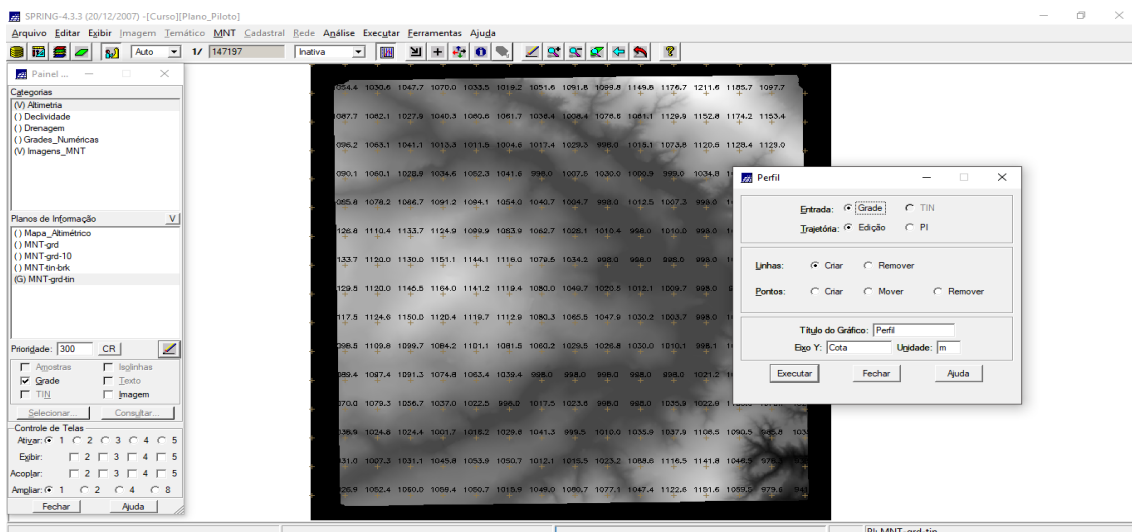
Deverá ser criada uma categoria temática Declividade com as seguintes classes de declividade: 0-2 graus, 2-4 graus, 4-8 graus e > 8 graus





Exercício 9 - Geração de Perfil a partir de grades

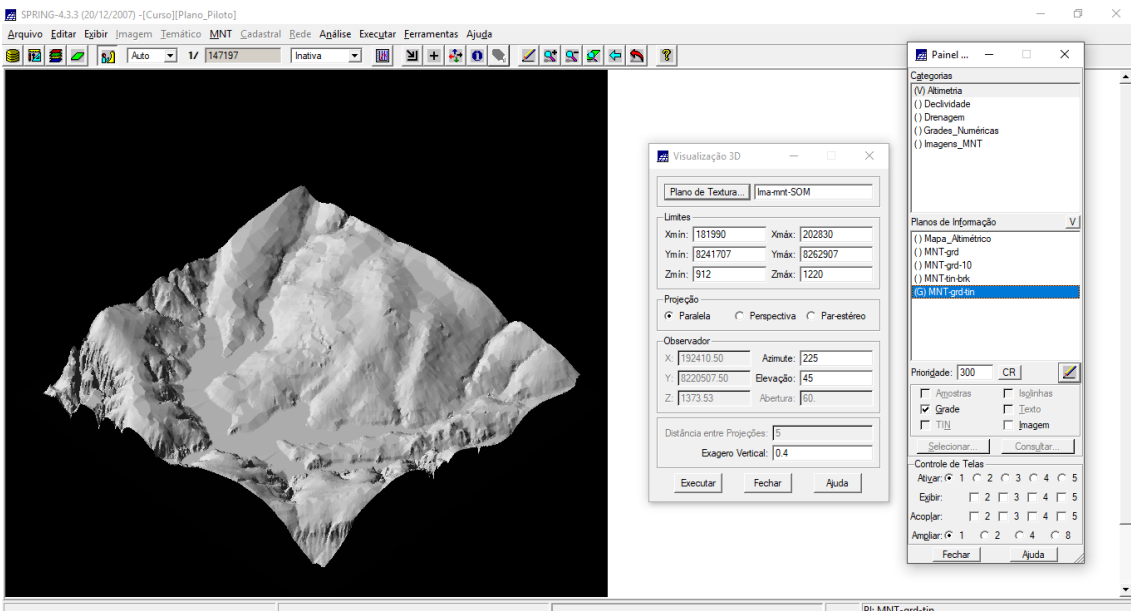
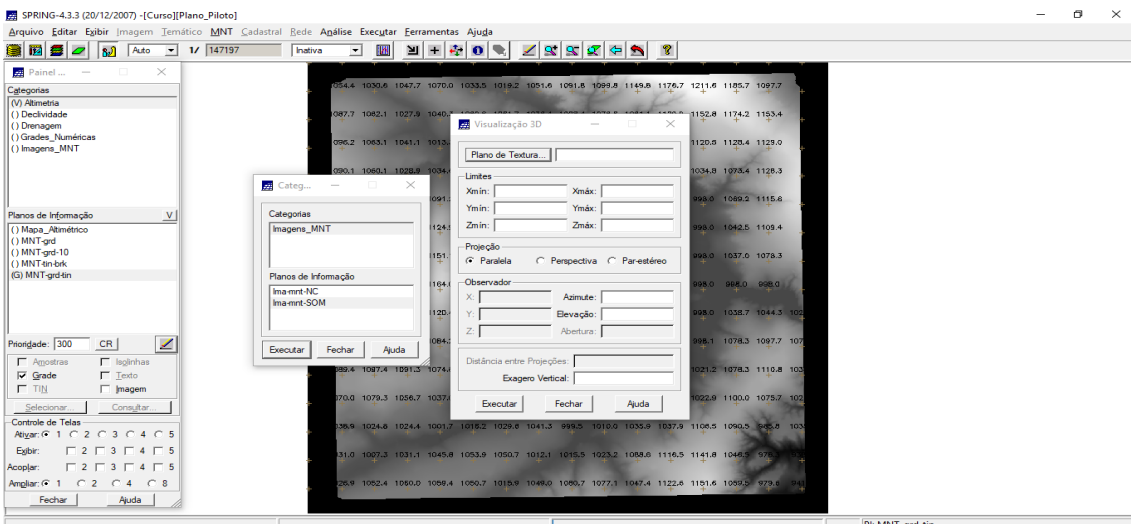
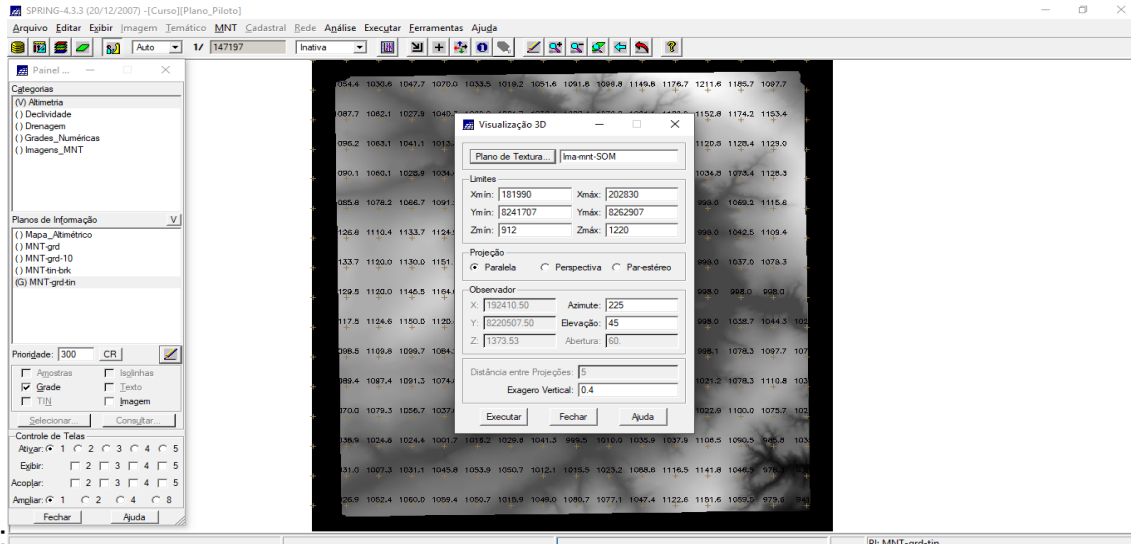
Gerando perfil de trajetória editada na tela:



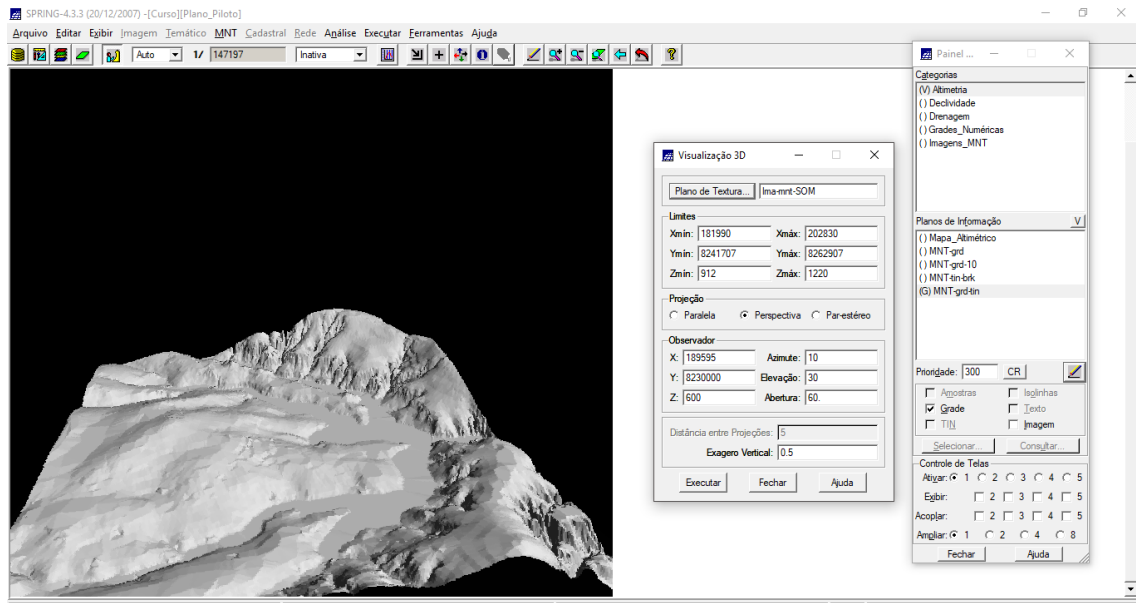


Exercício 10 - Visualização de Imagem em 3D

Visualização 3D:



Visualizando em projeção perspectiva:



Visualizando em projeção paralela-estéreo:

