ME301 Hole Wizard Assignment

Note: The Machine Shop section of the Mindworks website gives information on various tools associated with fasteners and fastener designation

1) Using text, internet, and each other, complete the following definitions
   a) Using your own words and sketches, explain the shape and use of a Socket Head Cap Screw

   b) Using your own words and sketches, explain the difference between standard ANSI Inch and Metric fastener characteristics

   c) Using your own words and sketches, explain the shape and use of a Flat Head Machine Screw

   d) Using your own words and sketches, explain the difference between pipe thread and standard fastener thread designations

2) Model the attached block in Solidworks using the hole wizard feature for all applicable holes. Extrude the sketch to the stock size. Deliverables: Screen capture of modeled part and design tree.
NOTE: USE 1" STOCK

DIMENSIONS ARE IN INCHES
THIRD ANGLE PROJECTION

DEFAULT TOLERANCES:

HOLE WIZARD BLOCK

QTY:

PART # 1

SCALE: 1:1

SHEET 1 OF 1