

## a) STANDARD BOLTS AND NUTS

1- For regular hexagon bolts and nuts:

$$W=1.5D \quad H=0.67D \quad T=0.875D$$

2- For heavy hexagon bolts and nuts:

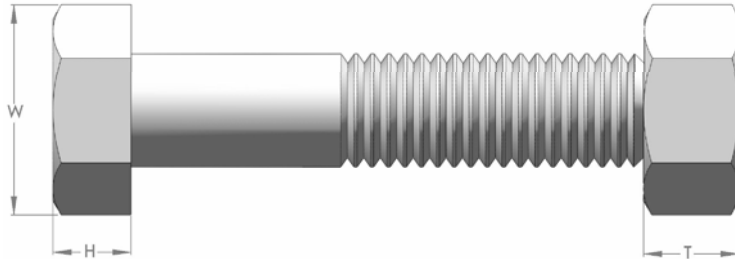
$$W= 1.5D+3mm \quad H=0.67D \quad T=D$$

Where:

W= width across flats

H= head height

T= nut height



## b) Thread Notes

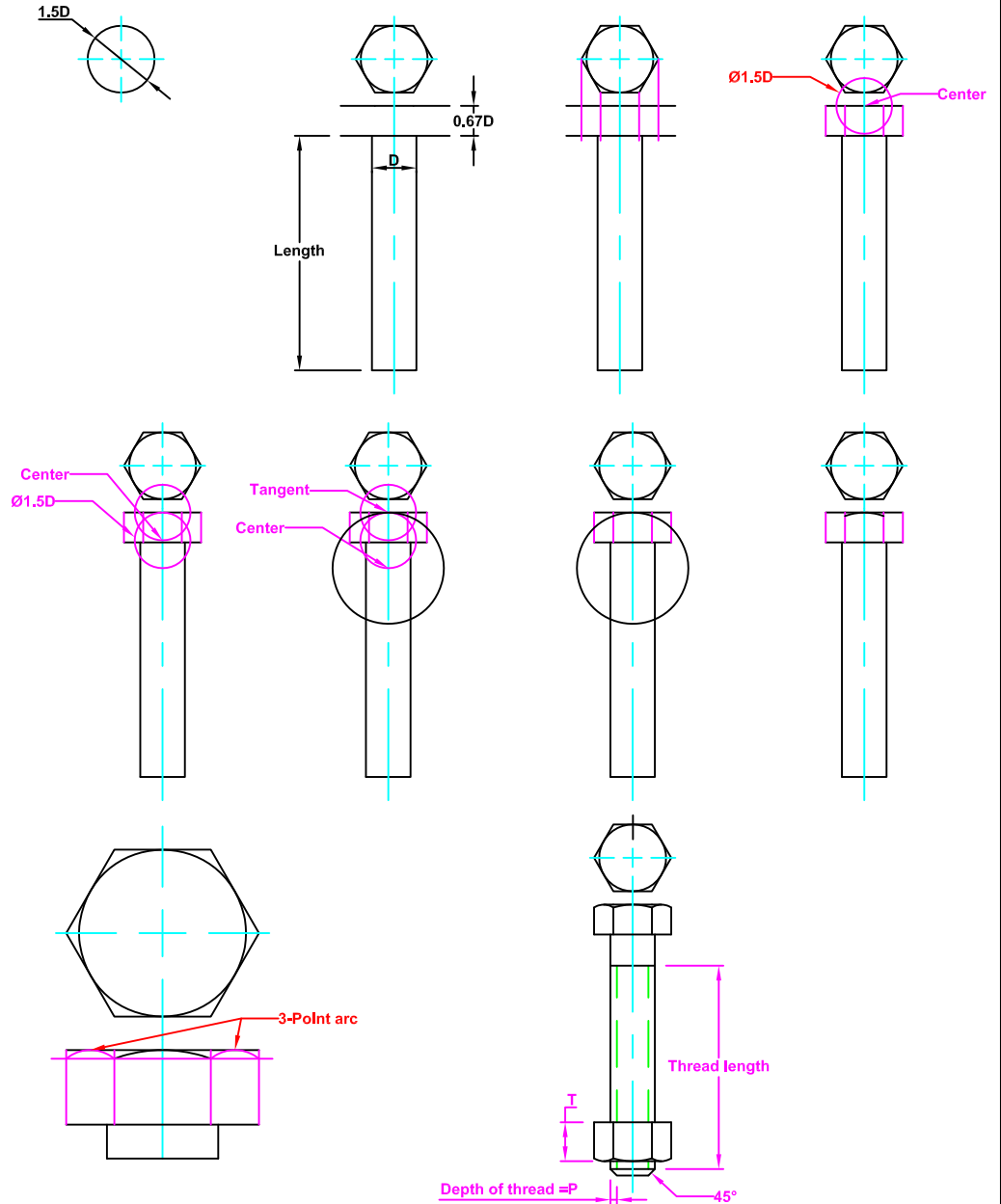
Metric Thread

P = Pitch

**M10 x 2**

D = Major Diameter

## SKETCHING HEXAGONAL BOLTS, CAP SCREWS, AND NUTS



NAME:

TITLE: BOLT PROPORTIONS

COURSE: MET 104

SECTION:

SCALE: 1:1

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