TECHNICAL DRAWING – YEAR 11 - SOLUTION
2021

WEEK 2

TOPIC: PLANE GEOMETRY

DATE: 31/05/21 to 04/06/21

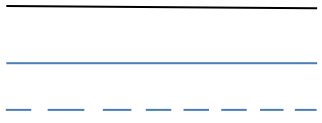
MONDAY – PLANE AND SPACE GEOMETRY

1. DEFINE

TECHNICAL DRAWING : a precise and detailed drawing of an object, as employed in architecture or engineering.

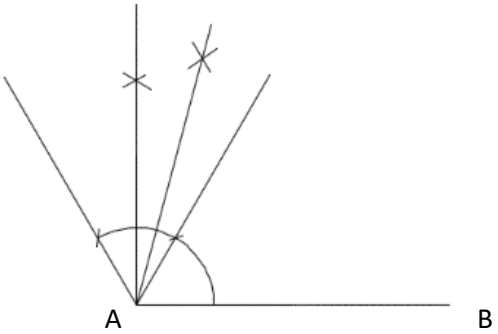
2. List two career paths for Technical Drawing
   - Architecture
   - Civil Engineer

3. Draw visible , construction and hidden line below



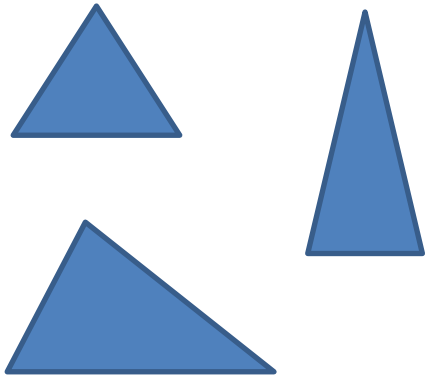
TUESDAY – ANGLES

On the given line **AB** construct the following angles 90’ and 75’



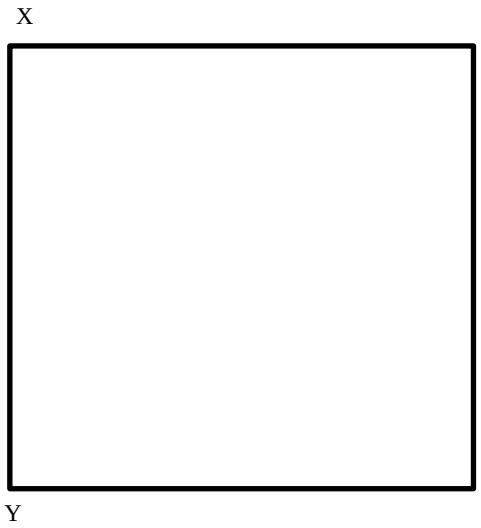
WEDNESDAY – TRIANGLES

Draw sketches of the three common triangles



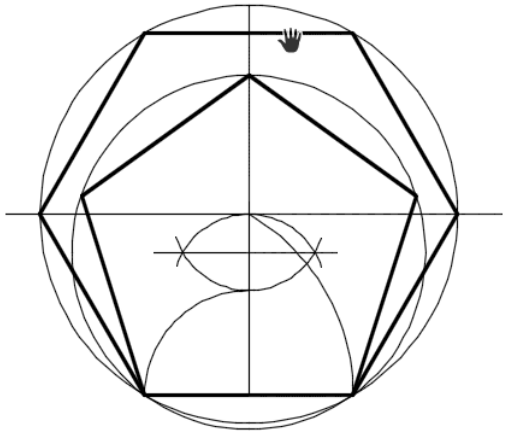
THURSDAY - QUADRILATERALS

Given line XY. Draw a Quadrilateral



FRIDAY – POLYGONS

On given line AB construct a hexagon and pentagon (both polygons on the same line)



TECHNICAL DRAWING – YEAR 11
2020

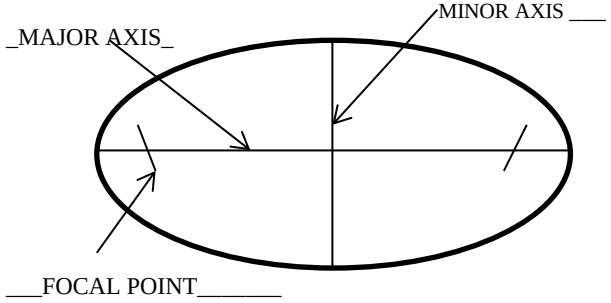
WEEK 3

TOPIC: PLANE GEOMETRY

DATE: 07/06/21 to 11/06/21

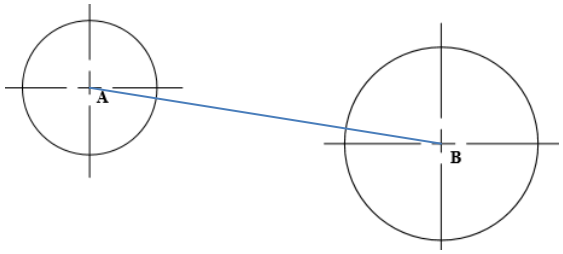
MONDAY – ELLIPSE

Label the parts of the given ellipse



TUESDAY – TANGENTS AND TANGENCY

Draw internal tangent to two unequal circles given below



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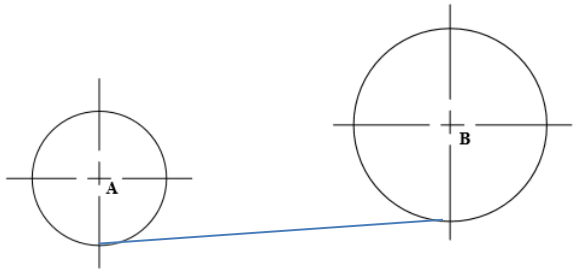
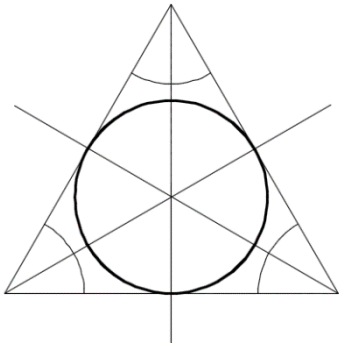


THURSDAY – INSCRIBE /CIRCUMSCRIBE

Inscribe a circle in the triangle given below



FRIDAY – SCALES

Construct a Plain Reduction Scale of 1:50 to read Meters and Tenths of a Meter up to 3 meters
Do all the necessary calculations and draw the scale (note show all the working with proper guidelines)

Calculations:
_____SL = MR X RF_____SL TO mm_____
_____= 3 X 1/50_____=0.06 X 3000_____
_____SL = 0.06m_____= 60mm_____
_____
_____

Draw scale below