

Assignment #1: Drawings are due on February 6, 2006.

Use a drawing template sheet. Fill in the title block... the part is "ASSIGNMENT 2".

1. Draw an equilateral triangle having a horizontal base of length 2.5 inches. Then bisect each side.
2. Trace the diagonal line shown. Construct a perpendicular line of equal length that bisects this line.
3. Trace the three points shown to the right. Find the one point that is equidistant from each of these three points. Use your compass to draw the circle that passes through all three original points.
4. Line A is 2 inches long, and inclined at 30° from the horizontal. Line B is 2.5 inches long, and inclined at 75° . They meet at their lower left ends. Bisect the angle they form.
5. Inscribe an equilateral triangle in a circle of diameter 3 inches. One point should be at the top of the circle.
6. Draw another circle of diameter 3 inches. Draw two hexagons (one inscribed, and one circumscribed) on this circle. The hexagons should have two vertical edges.
7. Draw a line of length 4 inches at an angle of 40° . Divide it into 5 equal segments.
8. On a new sheet, draw all six views of the following object, using appropriate line types and weights, at full scale. Separate each view by one inch. The length of the longest line on the base is 3 inches. A rough sketch of the appropriate layout is also shown.

