

## 1.7 Sketching Techniques

The ability to create fast, understandable views of objects with only a pencil and a piece of paper is extremely important to being successful as an engineer, designer, architect, builder, manufacturer or craftsman. All objects are composed of lines: horizontal lines, vertical lines, angular lines, circular lines, arcs and ellipses. The procedures shown here describe the movement of your hand for the sketching of lines, circles and ellipses. Very light construction lines should be used when doing arcs, circles and ellipses. Practicing these techniques will help you develop skill in the creation of lines, arcs, circles, ellipses, and views of objects<sup>55</sup>.

