

Last Name:	
First Name:	
Class:	
Grade:	Converted to Final Grade:

Intermediate Engineering Graphics
Instructor: Edward N. Locke

Quiz 3: Three-view Orthographic Drawings, Isometrics and Oblique

(1) Circle all correct statements on isometric drawings:

1. Lines parallel in orthogonal view must be parallel in an isometric view.
2. All lines drawn in isometric drawings are parallel to the three axes and drawn in full scale.
3. In isometric drawings, lines that are parallel to the three axes are drawn in full scale; lines that are not parallel to the axes are not drawn in full scale.
4. Circles drawn in isometric sometimes appear in their true shape.

(2) Circle the correct statement on relationship between perspective drawing and isometric as well as oblique drawings:

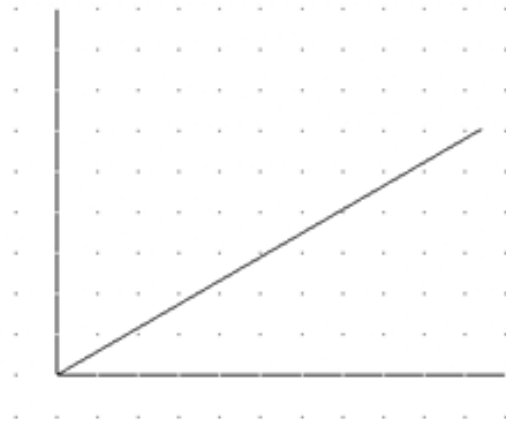
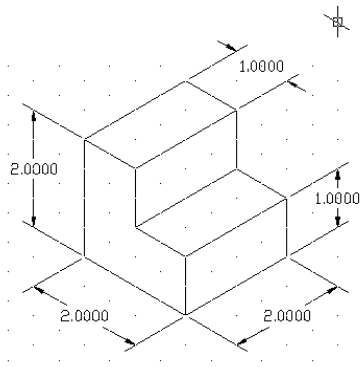
1. The one-point perspective has similar appearance as isometric drawing, but has two sets of parallel lines; with the “receding” lines converge to one vanishing point. The two-point perspective has similar appearance as oblique drawing, but has one set of parallel lines, and two sets of receding lines converge to two vanishing point.
2. The one-point perspective has similar appearance as oblique drawing. The two-point perspective has similar appearance as isometric.

(3) The magic key for drawing isometric ellipses in AutoCAD 2000 is

1. F8
2. F5

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(4) Sketch the following object in three-view orthographic drawing and cavalier oblique:



(5) Three-view (grid spacing = 0.5)

Cavalier oblique (grid spacing = 0.5)