

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

Beginning Engineering Graphics
Instructor: Edward N. Locke

Quiz 7: Descriptive geometry (Solids and Development)

(1) Look at the object in the instructor's hands and circle all correct statements:

1. The first object is a polyhedron and has a ruled surface.
2. The second object is a cylinder and has a warped surface.
3. The third object is a sphere and has a double-curved surface.
4. The fourth object is a cone and has a single-curved surface.

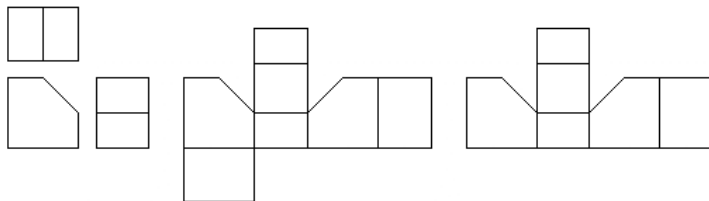
(2) Circle all correct statements on development:

1. Cones, cylinders and spheres can all be precisely developed.
2. Cones, cylinders, and polyhedra can be precisely developed; and sphere and warped surfaces can be developed only approximately by an indirect method of substitution.
3. All single-curved surfaces can be precisely developed.
4. Triangulation divides a surface into a number of triangles to make a development for transition pieces and is extensively used in ventilating and air-conditioning constructions.

(3) Circle all correct statements on Platonic Solids:

1. The Platonic Solids include tetrahedron, dodecahedron, ellipsoid, cube, and icosahedron.
2. The Platonic Solids include tetrahedron, sphere, octohedron, cube, and torus.
3. The Platonic Solids include tetrahedron, dodecahedron, octohedron, cube, and icosahedron.
4. The Platonic Solids include tetrahedron, dodecahedron, octohedron, pentagonal, and icosahedron.

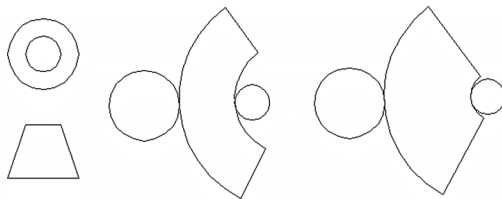
(4) Circle the correct development of the following object.



Development A

Development B

(5) Circle the correct development of the following cylinder.



Development A

Development B