Nanyang Technological University

**Lab 2 Report:**

**Parametric Surfaces and Solids**

CZ2003 Computer Graphics and Visualization

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**Parametric Surfaces (Experiment on Resolution)**

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| **Curve 1** | **Curve 2** | **Note/Explanation** |
| A screenshot of “3D Plane – 1.wrl” which defines a surface by parametric equations:  x=u  y=v  z=u  The domain for u and v is [0, 1].  The sampling resolution is [75 75]. | A screenshot of “3D Plane – 1.wrl” which defines a surface by parametric equations:  x=u  y=v  z=u  The domain for u and v is [0, 1].  The sampling resolution is [1 1]. | The drawing of a 3D plane only requires 4 lines. Therefore the sampling resolution [1 1] also works. |
| A screenshot of “3D triangle – 1.wrl” which defines a surface by parametric equations:  x= v - u\*v  y= 1-u  z= 0  The domain for u and v is [0, 1].  The sampling resolution is [75 75]. | A screenshot of “3D triangle – 2.wrl” which defines a surface by parametric equations:  x= v - u\*v  y= 1-u  z= 0  The domain for u and v is [0, 1].  The sampling resolution is [1 1]. | The explanation is the same as the case of the 3D Plane. |
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