

**School of Computer Science and Engineering**

Report on Lab 2: Parametric Curves

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| **Course Module:** | CZ2003 Computer Graphics and Visualisation |
| **CZ2003 Lab Group:** | SSP5 |

*Define parametricallyin different files*

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| **Files** | **Notes** |
| Straight Line Segment |  |
| Circle and its arc |  |
| Ellipse and its arc |  |
| 2D spiral |  |
| 3D helix |  |

*Convert the explicitly defined curve y=sin(x) to parametric representation x(u), y(u) and define it in FVRML file.*

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| **Before Conversion** | **After Conversion** |
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*Explore what happens when you change the curves resolutions to as little as 2 and  
see how the shape of the curves changes.*

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| **Curves** | **Notes:** |
| Stralgith line | * No changes |
| Circle | * When resolution Is at 10 * Resolution is at 5 * Resolution is at 3 * When resolution at 2 |
| Ellipse | * Sampling at 10 * Sampling at 5 * Sampling at 3 * Sampling 2 |
|  | * Sampling at 50 * 10 * 3 * 2 |
|  | * 50 * 10 * 3 * 2 |

*5. Change the curves parameter domain to see how they elongate or shorten*

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| **Curves** | **Notes** |
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