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| Nanyang Technological University |
| Lab 5 Report: Parametric Metamorphoses |
| CZ2003 Computer Graphics |



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| **Shape/ Figure** | **Screenshot** | **Comments** |
| Solid (Figure 17) |  | definition "  "x=sin(u/6);  y=cos(v);  z=sin(u/6) \* sin(v);" |
| solid2 (figure 22=17+5) |  | definition "x=1.5\*cos(u)\*sin(v);  y=1.5\*sin(u)\*sin(v);  z=0.15\*sqrt(u\*u+v\*v)\*cos(v);" |
| morphing | Before morphing starts:  Before the morphing starts (another angle):    After morphing: | function parametric\_x(u,v,w,t)  { x1= sin((u\*12\*pi)/6);  x2=0.5\*v\*pi\*cos(2\*u\*pi);  return x1+(x2-x1)\*t; }  function parametric\_y(u,v,w,t)  { y1=cos(v\*pi\*2);  y2=(0.5\*u\*pi) - 0.5;  return y1+(y2-y1)\*t; }  function parametric\_z(u,v,w,t)  { z1=sin((u\*pi\*12)/6) \* sin(v\*2\*pi);  z2=0.5\*v\*pi\*sin(2\*u\*pi);  return z1+(z2-z1)\*t; }"  }  " |
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