

**Ex:**

Write Matlab® commands that create a 3-D lit-surface plot with interpolated shading (and 31 points in each direction) of the following function:

$$z = \sqrt{|\sin(x+y)|}$$

$$0 \leq x \leq 6$$

$$0 \leq y \leq 3$$

```
SOL'N:  x = 0:0.2:6;
          y = 0:0.2:6;
          [xx,yy] = meshgrid(x,y);
          zz = sqrt(abs(sin(xx+yy)));
          surf1(xx,yy,z)
          shading interp
```