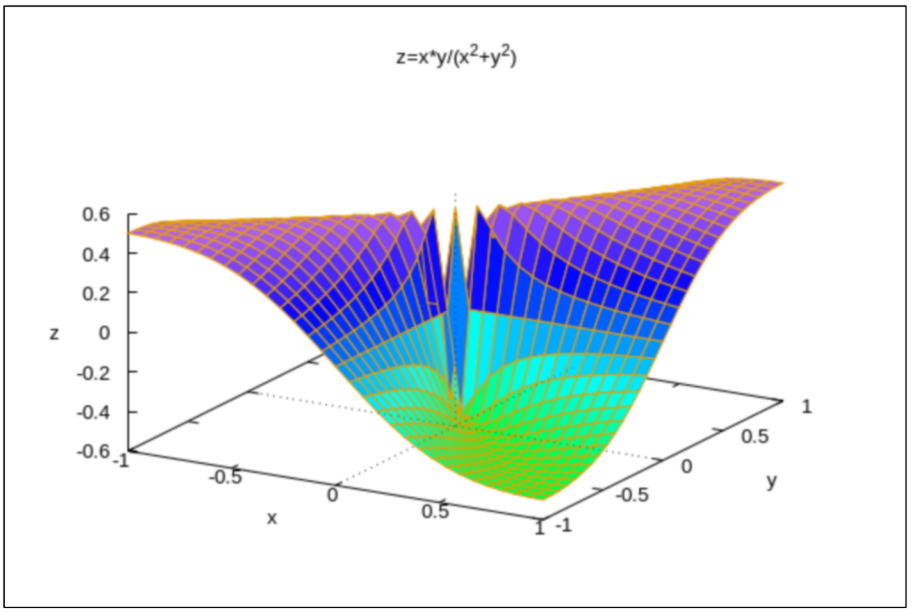
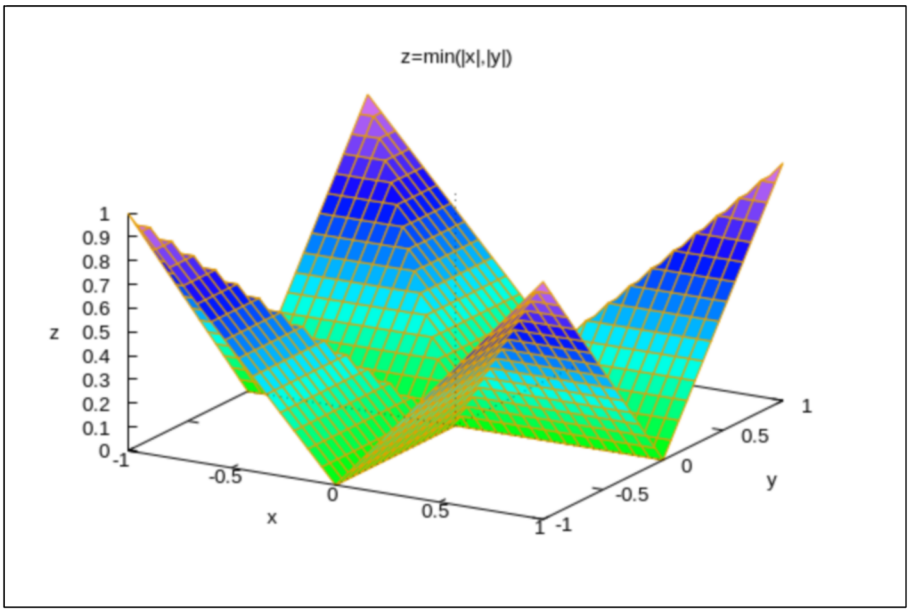
(%i5)
```
/· The continuity breaks down at the origin. ·/
wxplot3d(x · y/(x^2+y^2), [x,–1,1], [y,–1,1],
    [legend,false],[title,"z=x·y/(x^2+y^2)"])$
```

(%t5)



(%i6)
```
/· This is partially differentiable with respect to x and y,
and not differentiable at the origin. ·/
wxplot3d(min(abs(x),abs(y)), [x,–1,1], [y,–1,1],
    [legend,false],[title,"z=min(|x|,|y|)"])$
```

(%t6)



(%i7)
```
/* the tangent plane of z=(1-x^2-y^2)^{1/2} at (1/2,1/2,1/2^{1/2}) */
wxplot3d([sqrt(1-x^2-y^2),-x/sqrt(2)-y/sqrt(2)+sqrt(2), [x,-1,1], [y,-1,1]],
    same_xyz, [legend,false],
    [title,"the tangent plane of z=(1-x^2-y^2)^{1/2} at (1/2,1/2,1/2^{1/2})"])
```

(%t7)