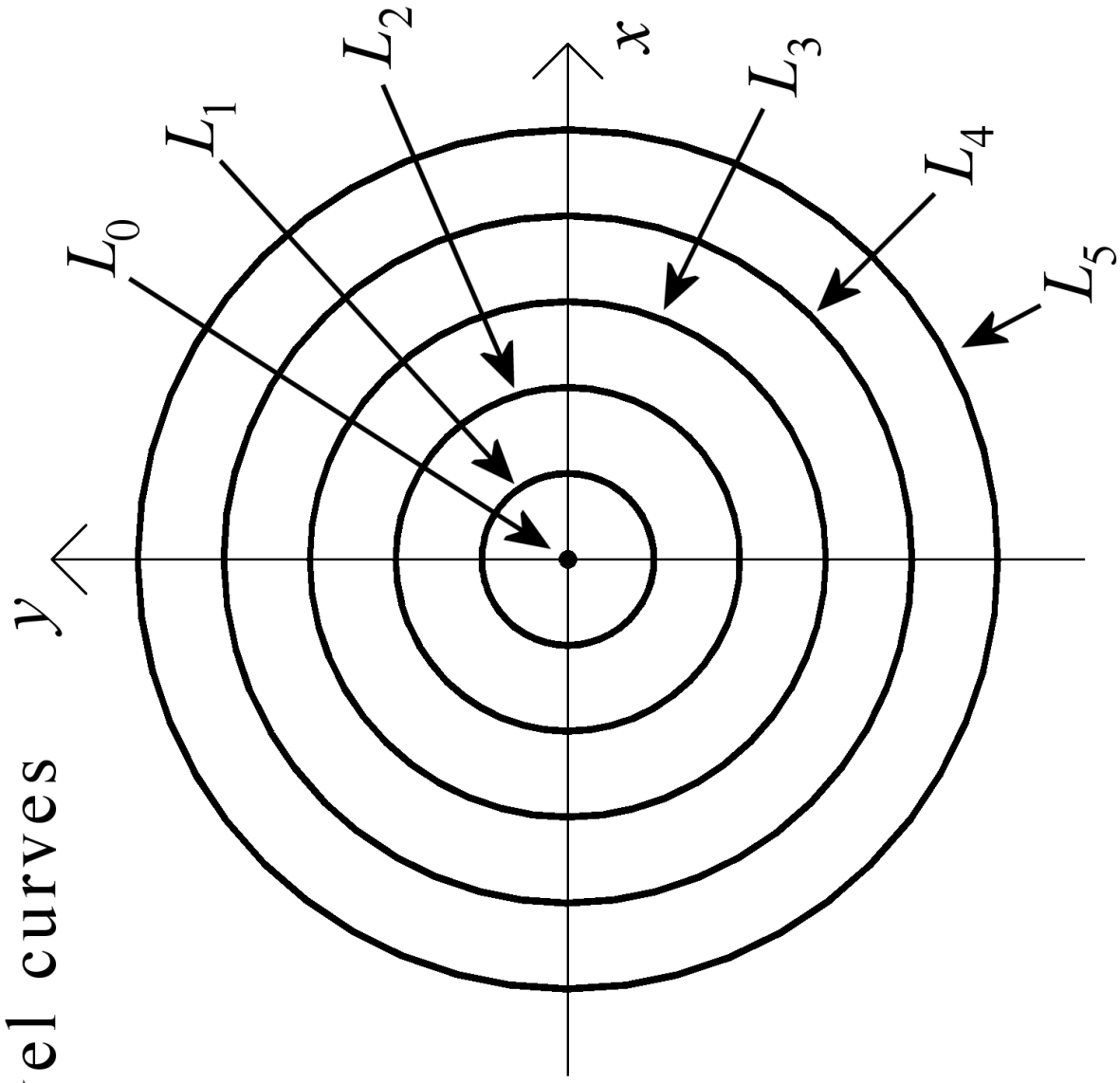
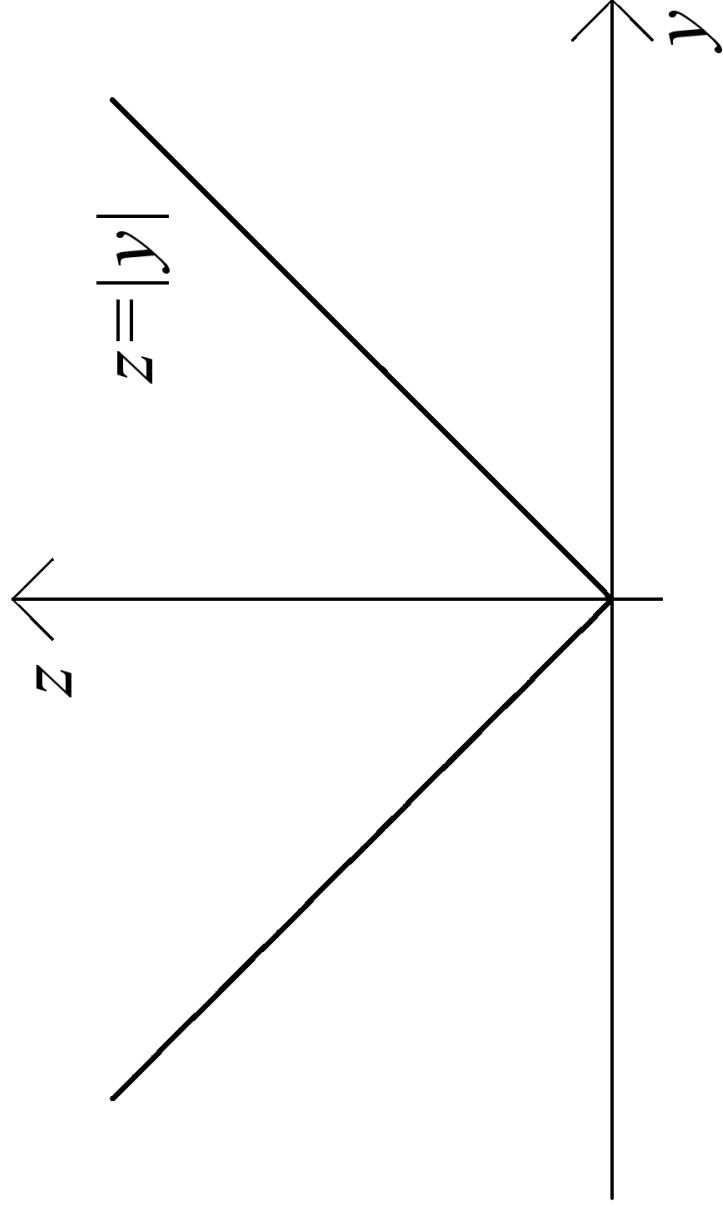


Level curves

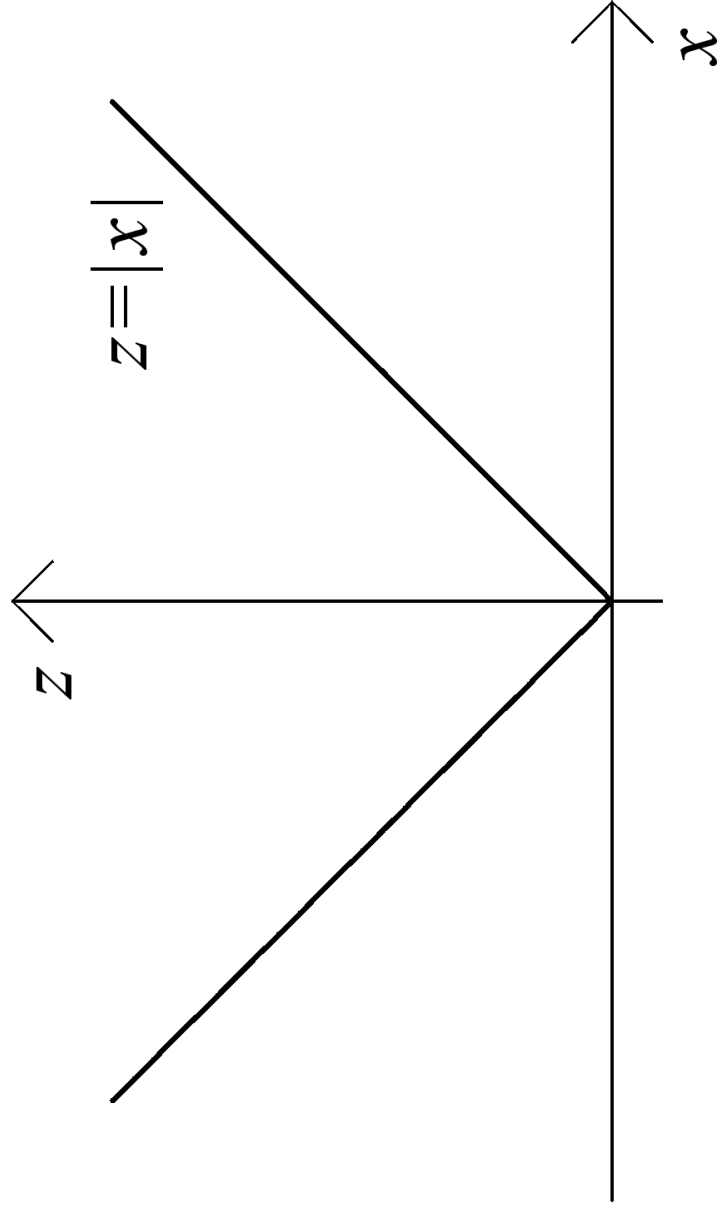
y

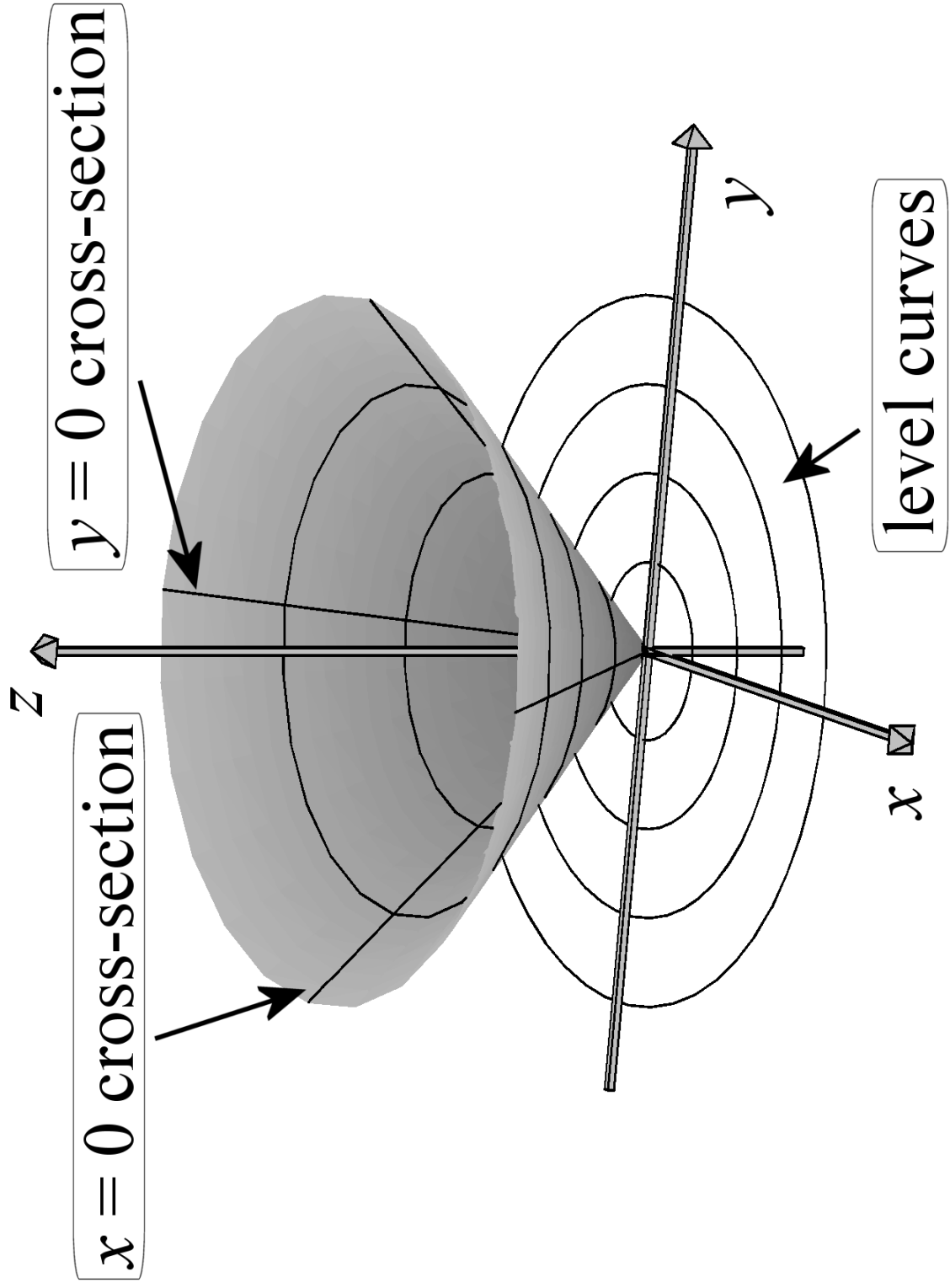


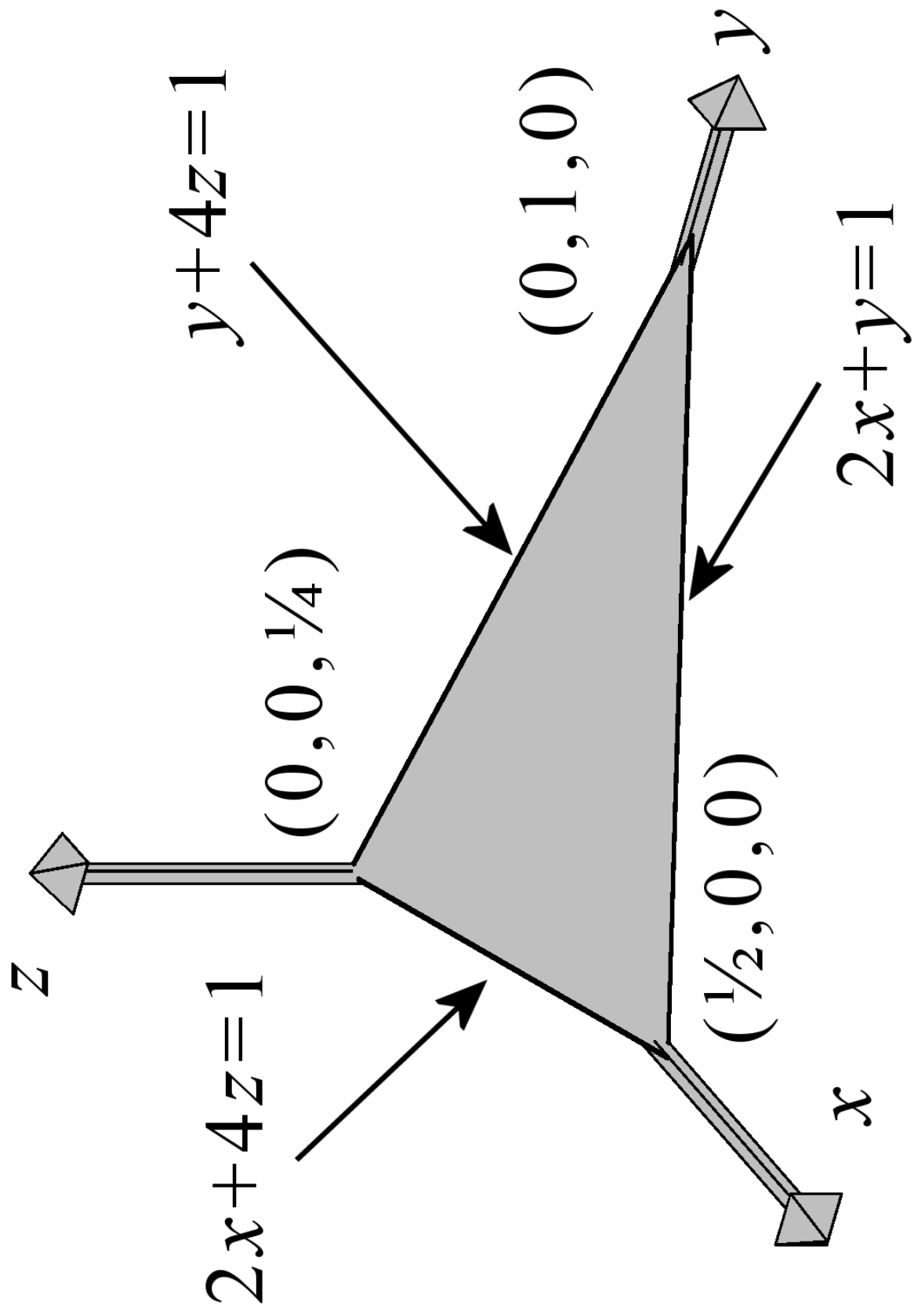
$x=0$ cross-section

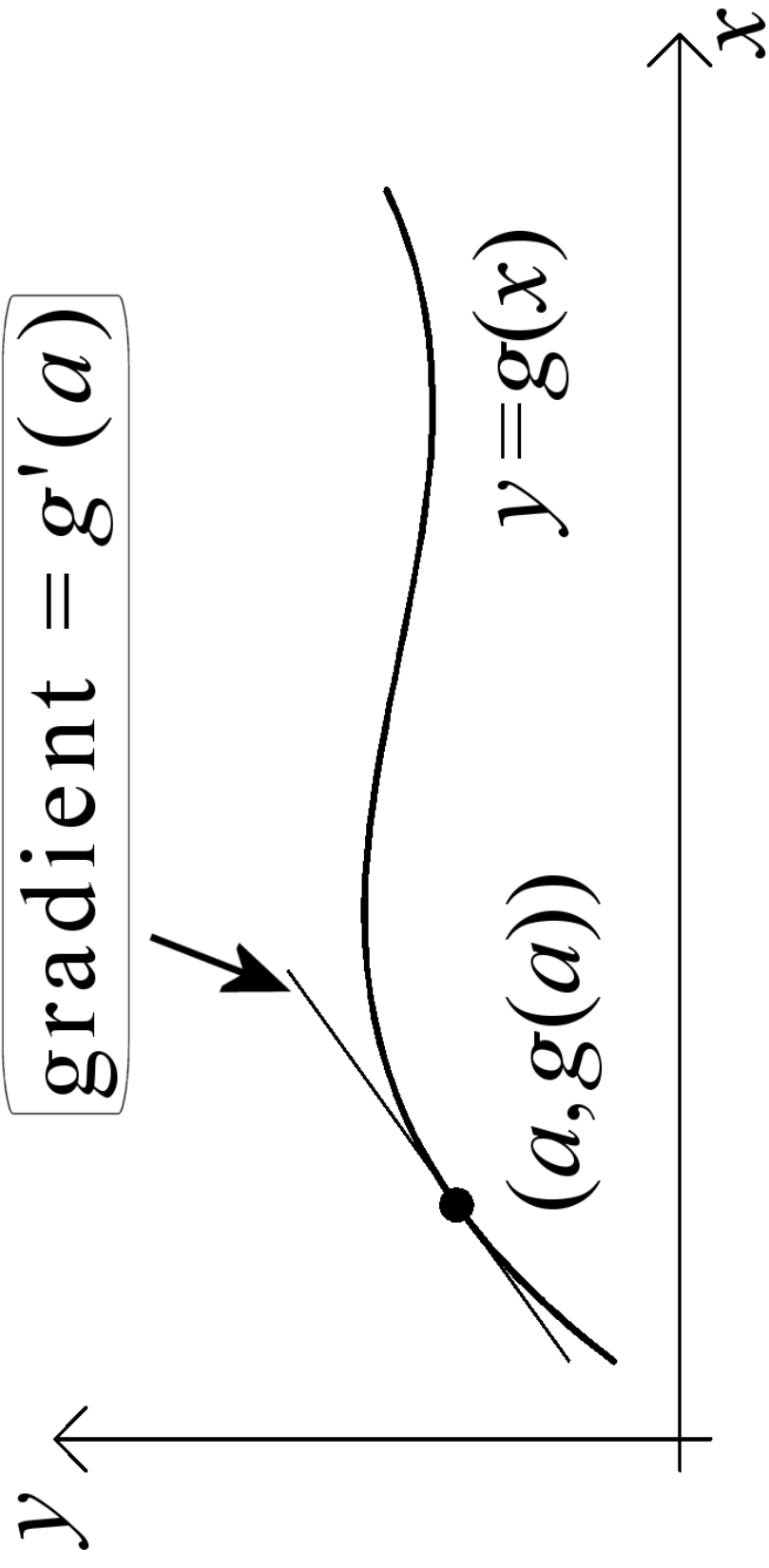


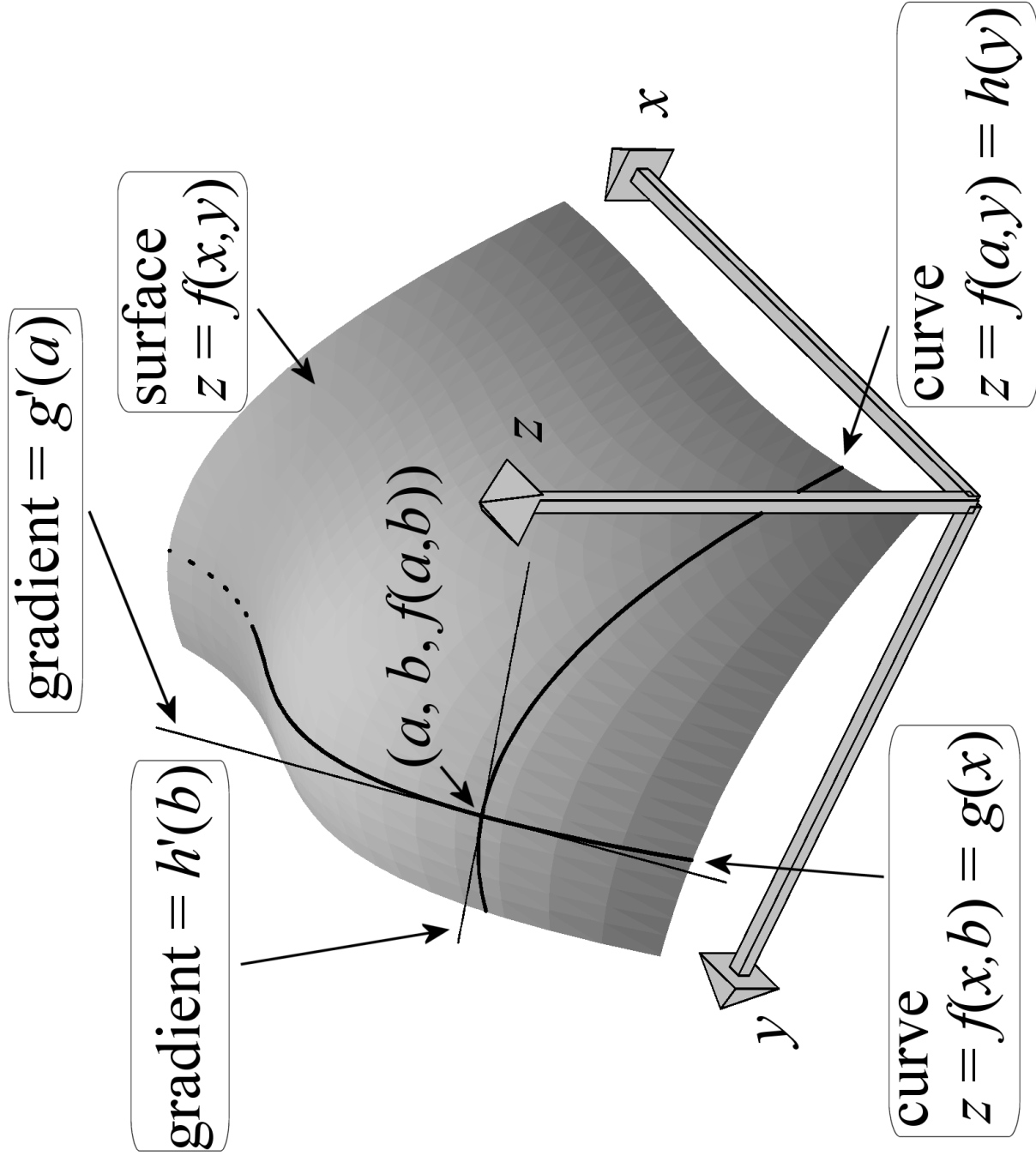
$y=0$ cross-section





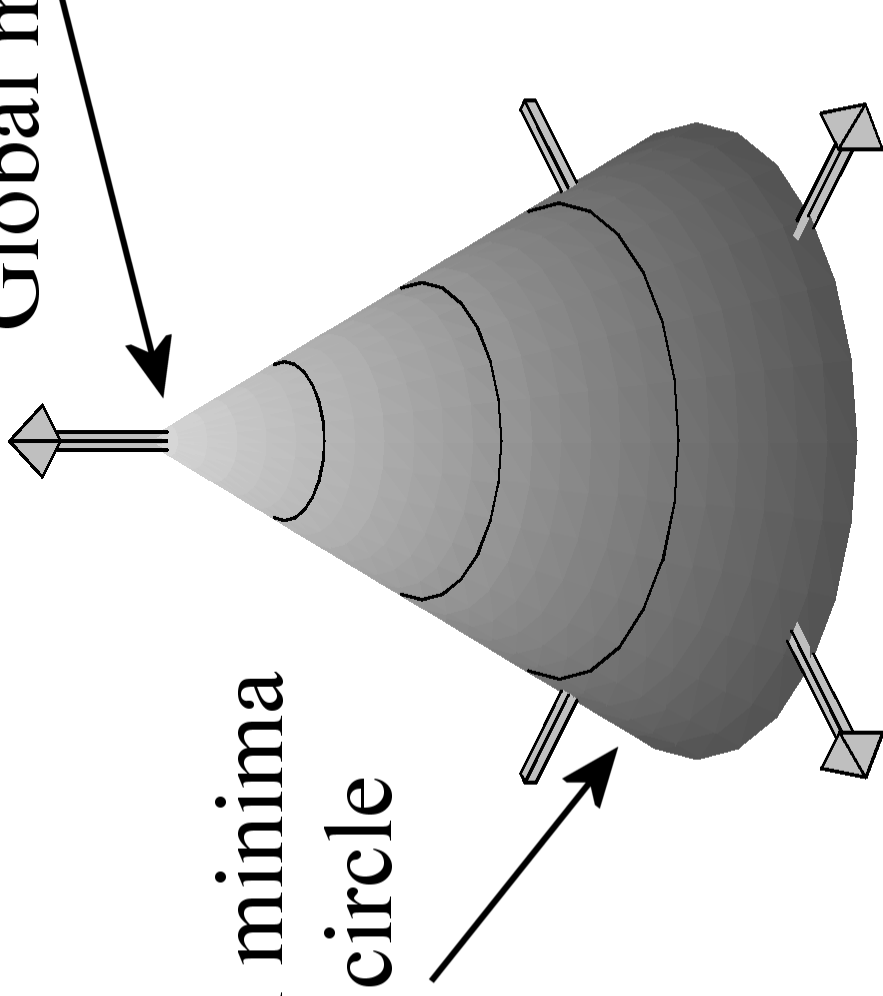


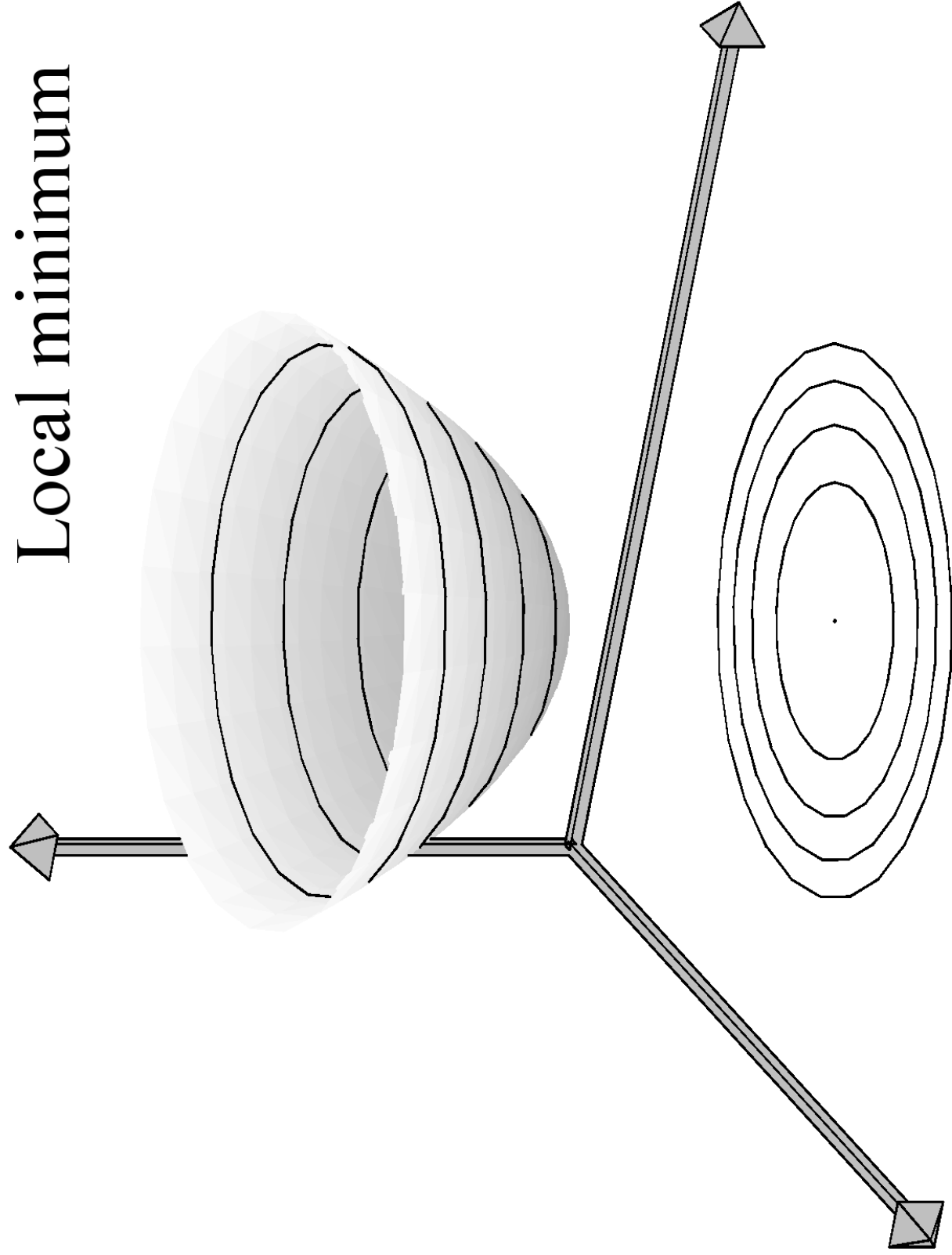


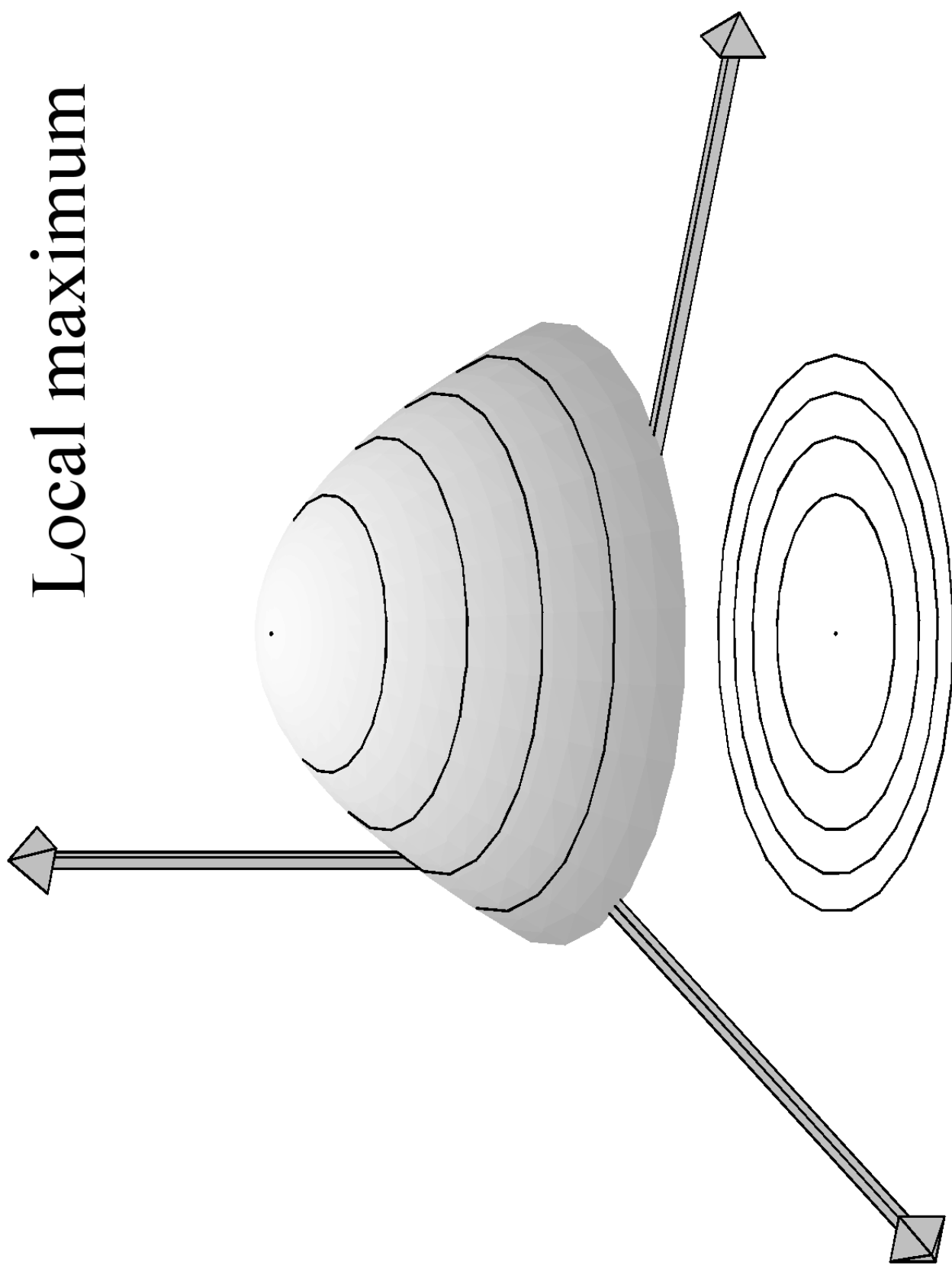


Global maximum

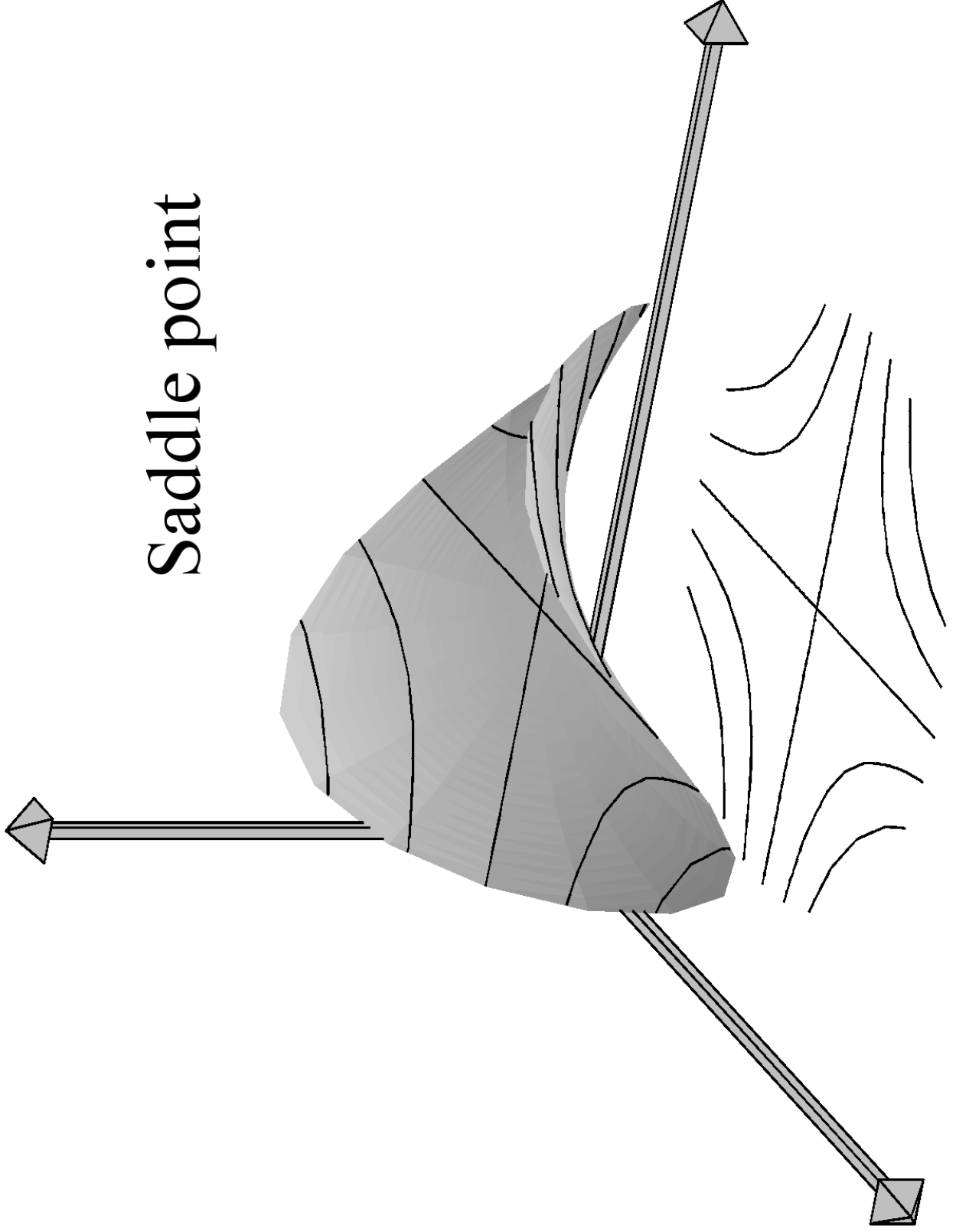
Global minima
on the circle

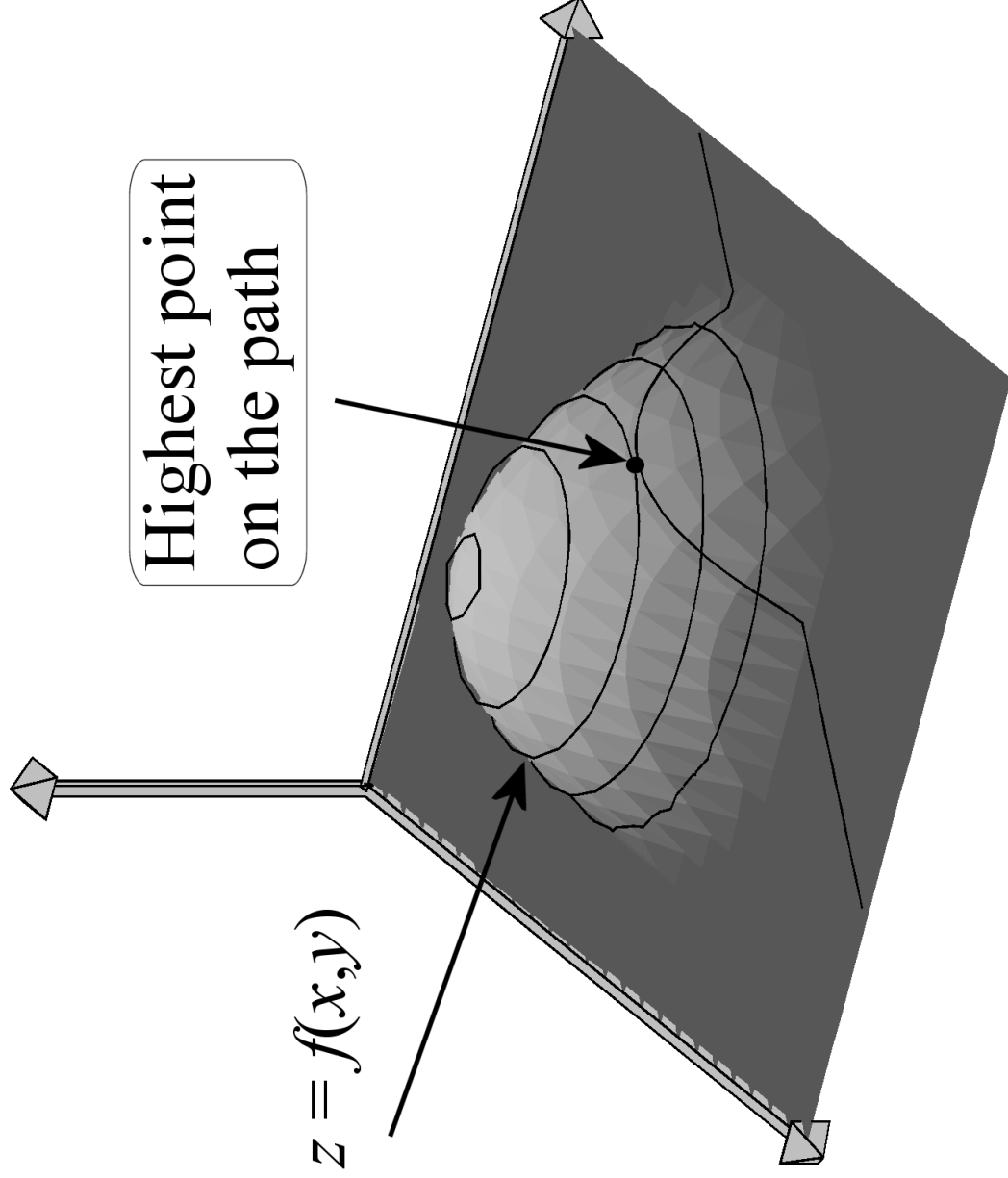






Saddle point

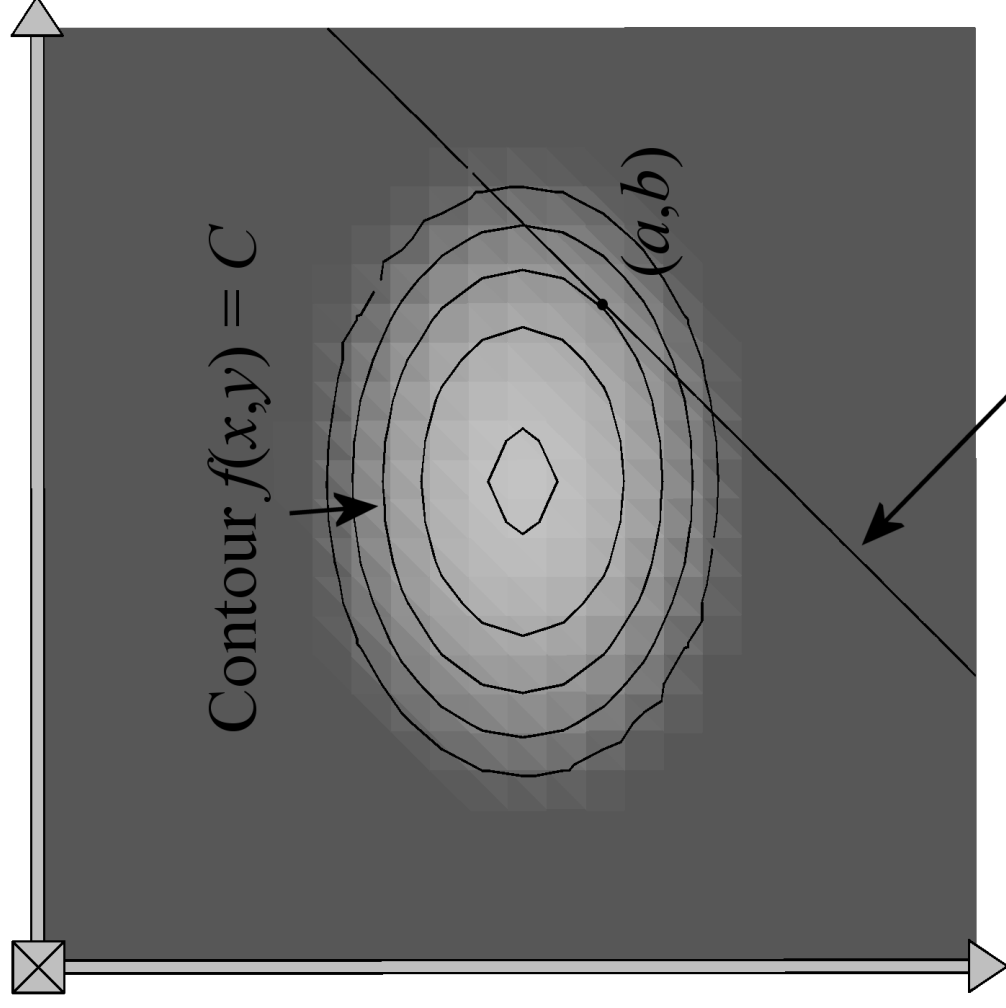


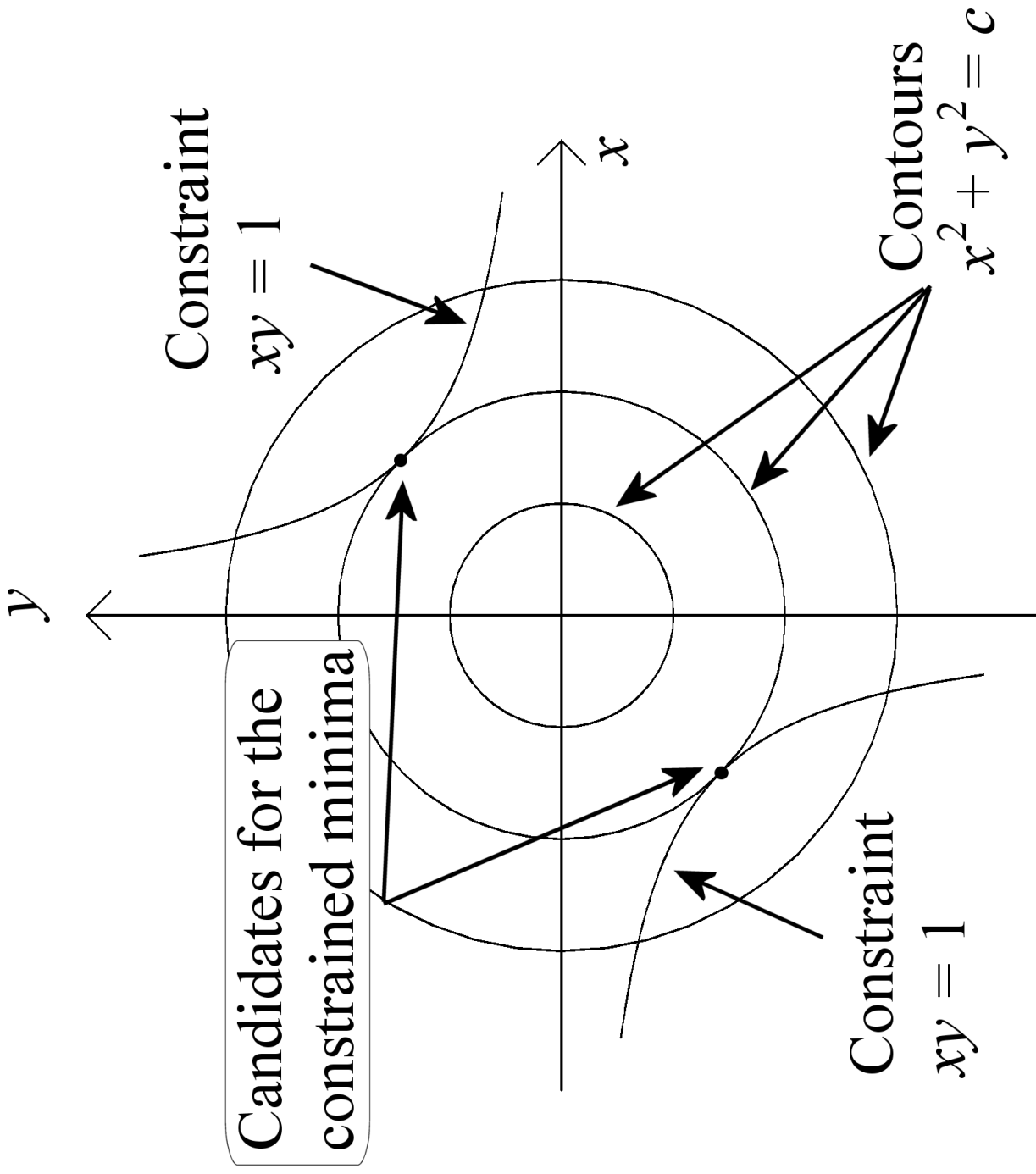


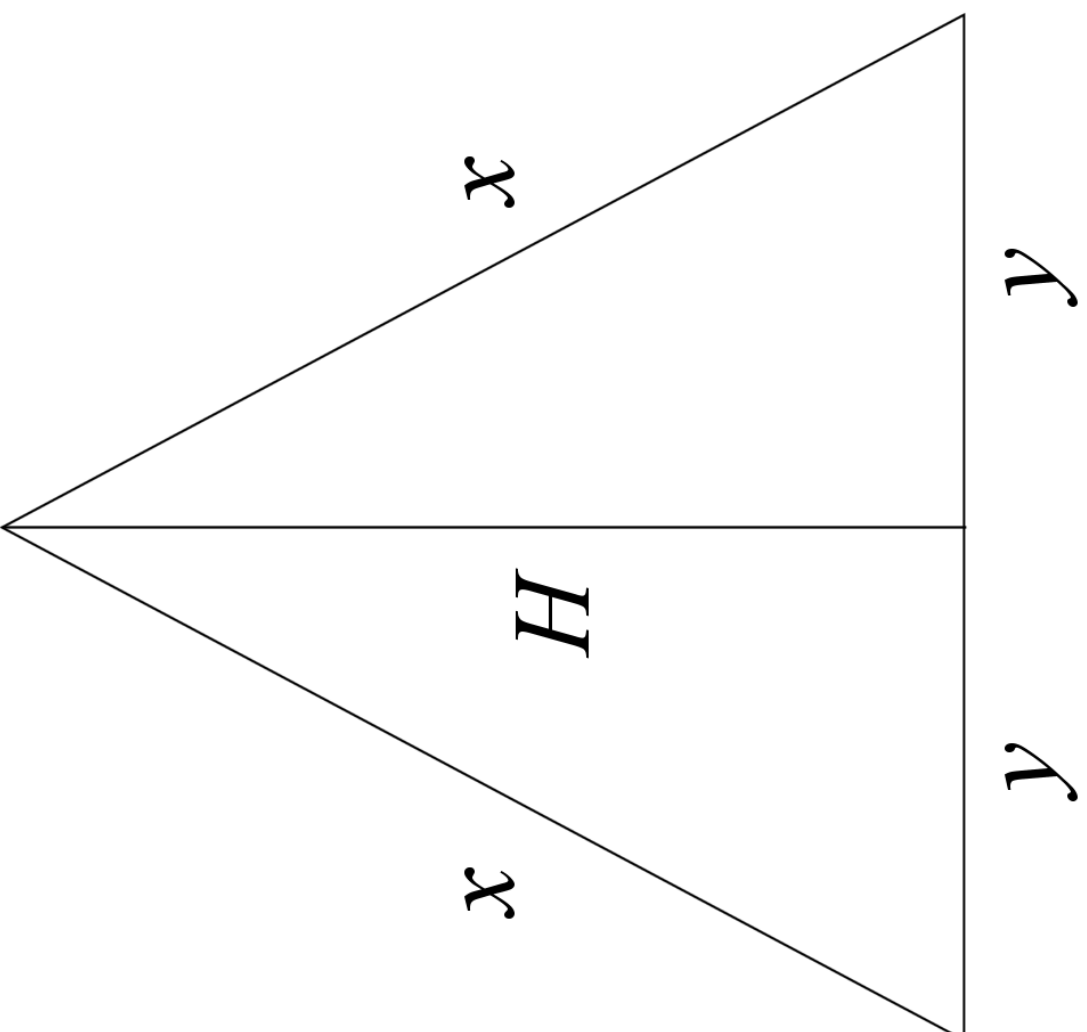
Mountain $z = f(x, y)$

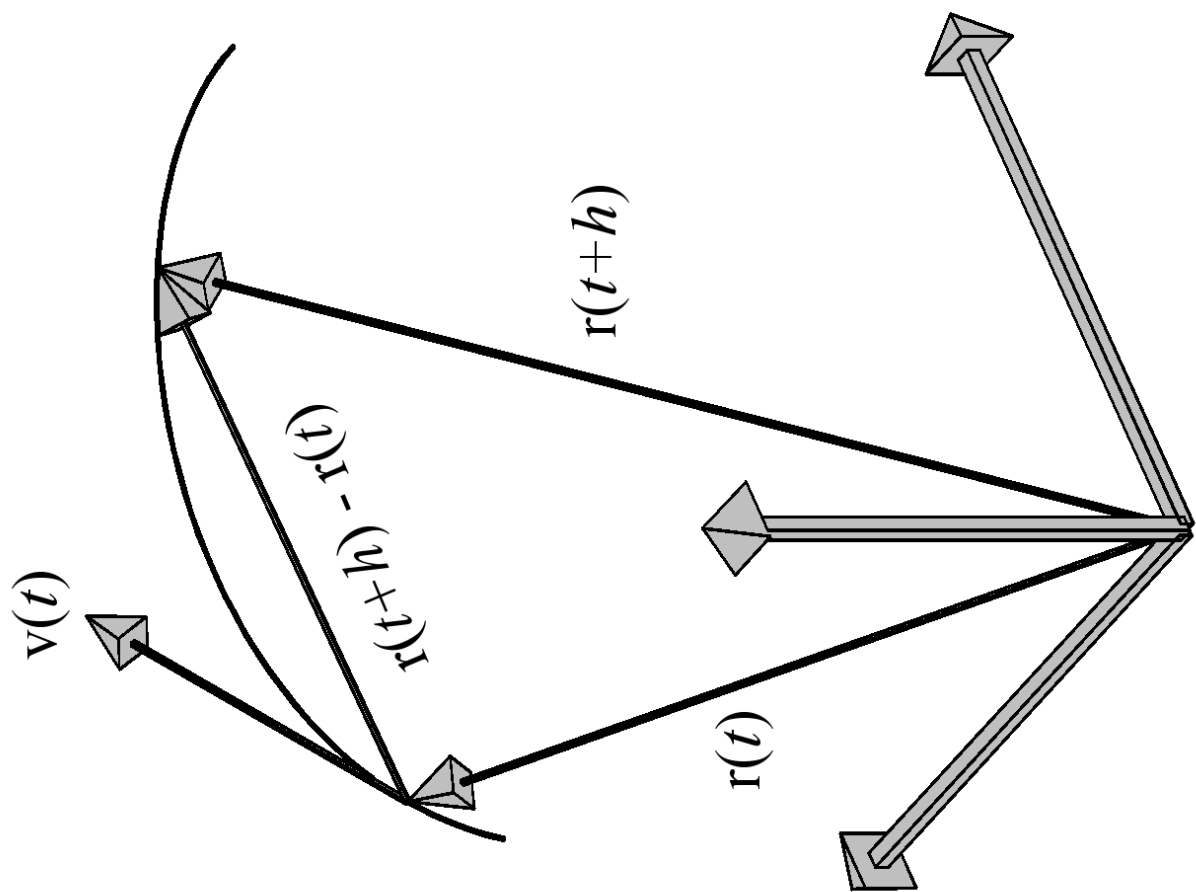
Highest point
on the path

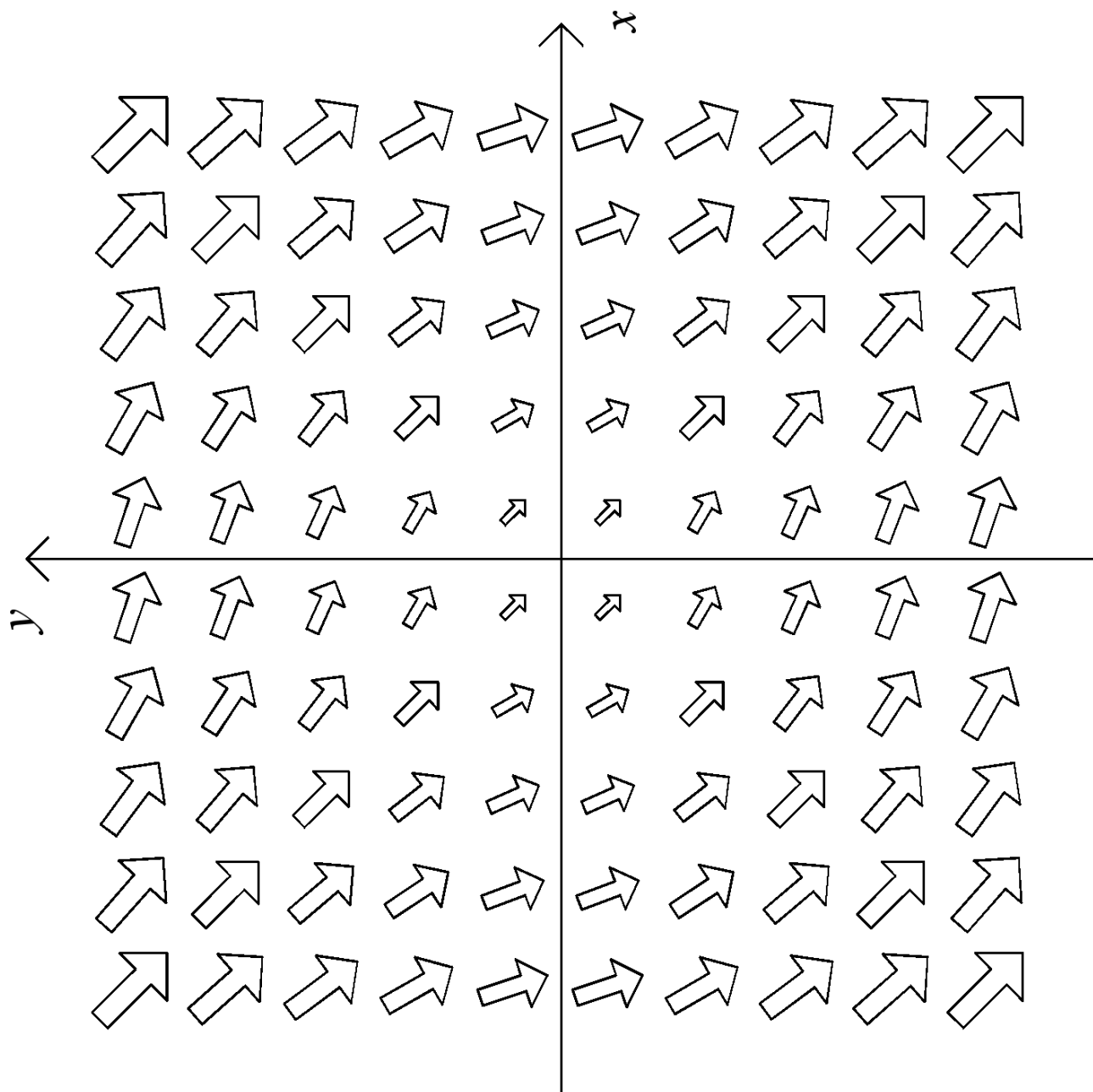
Plan view

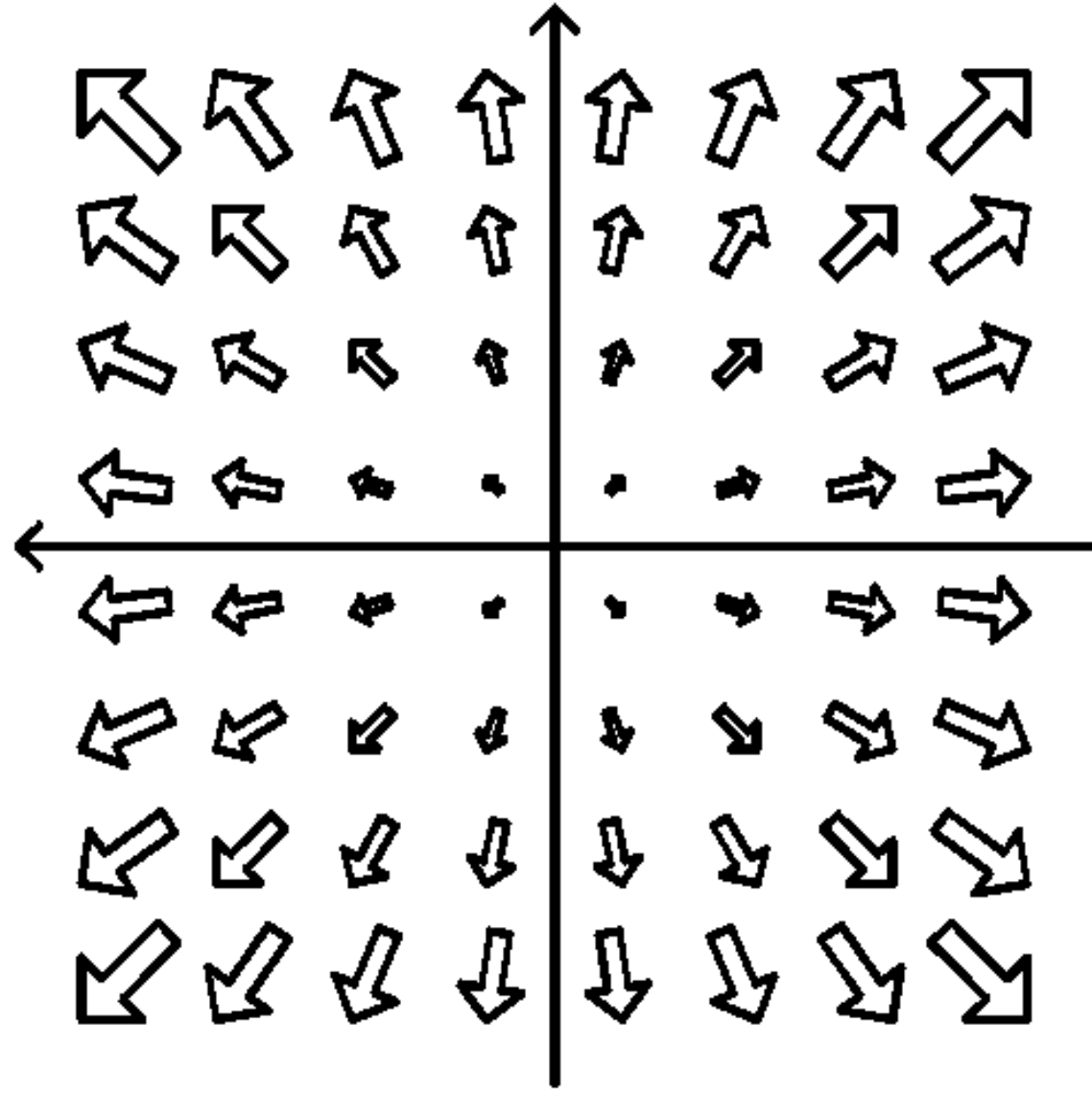




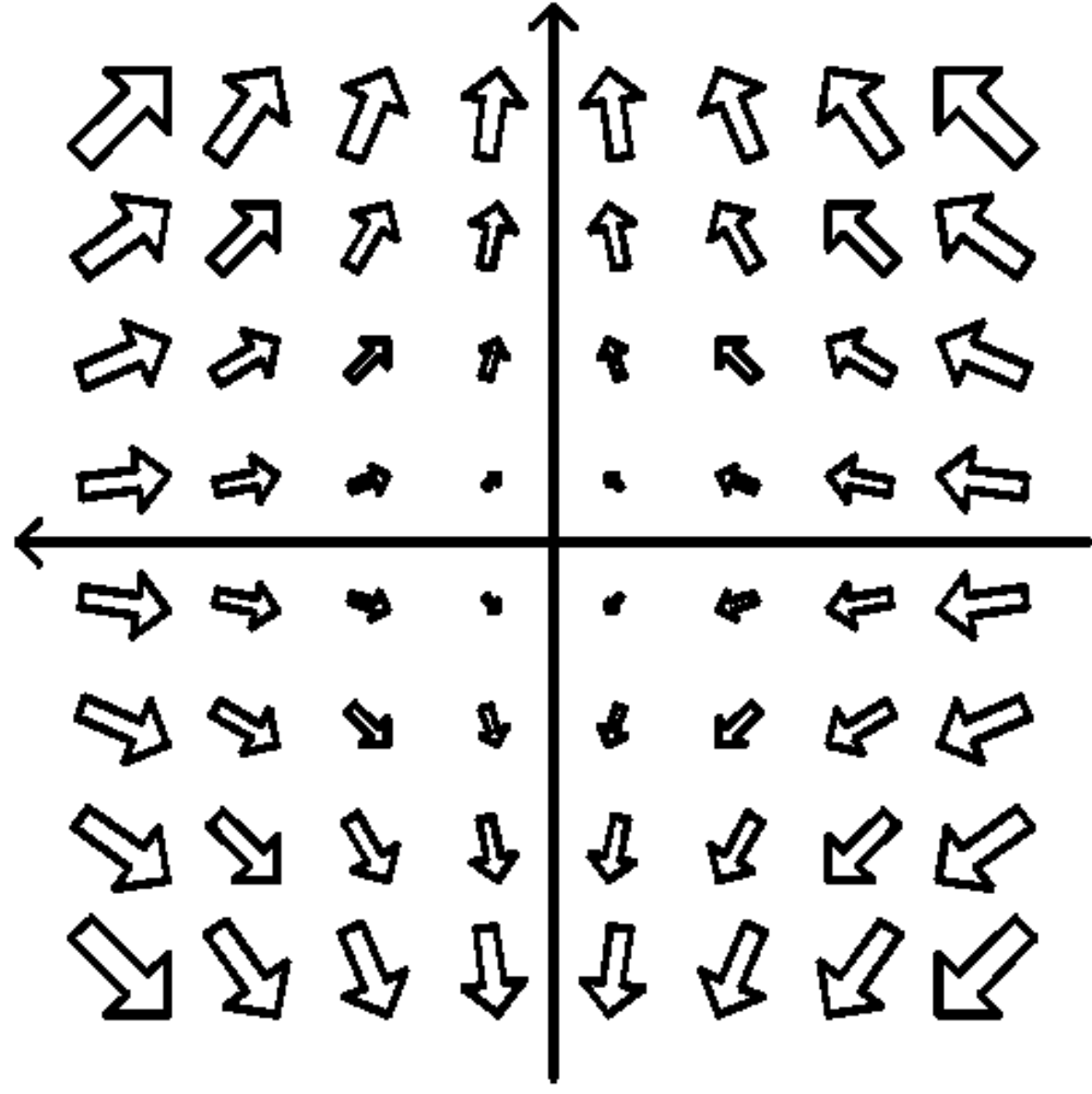




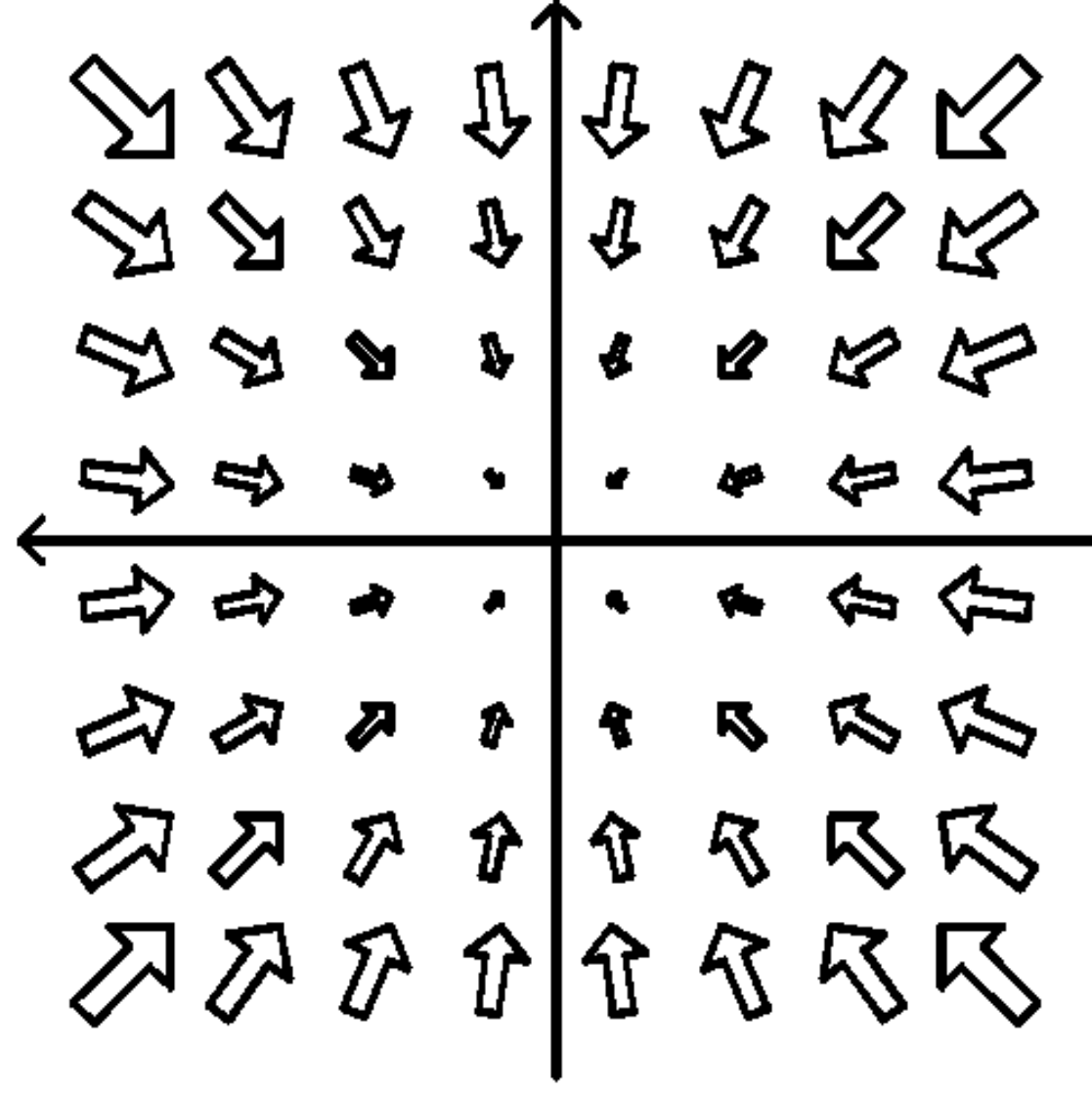




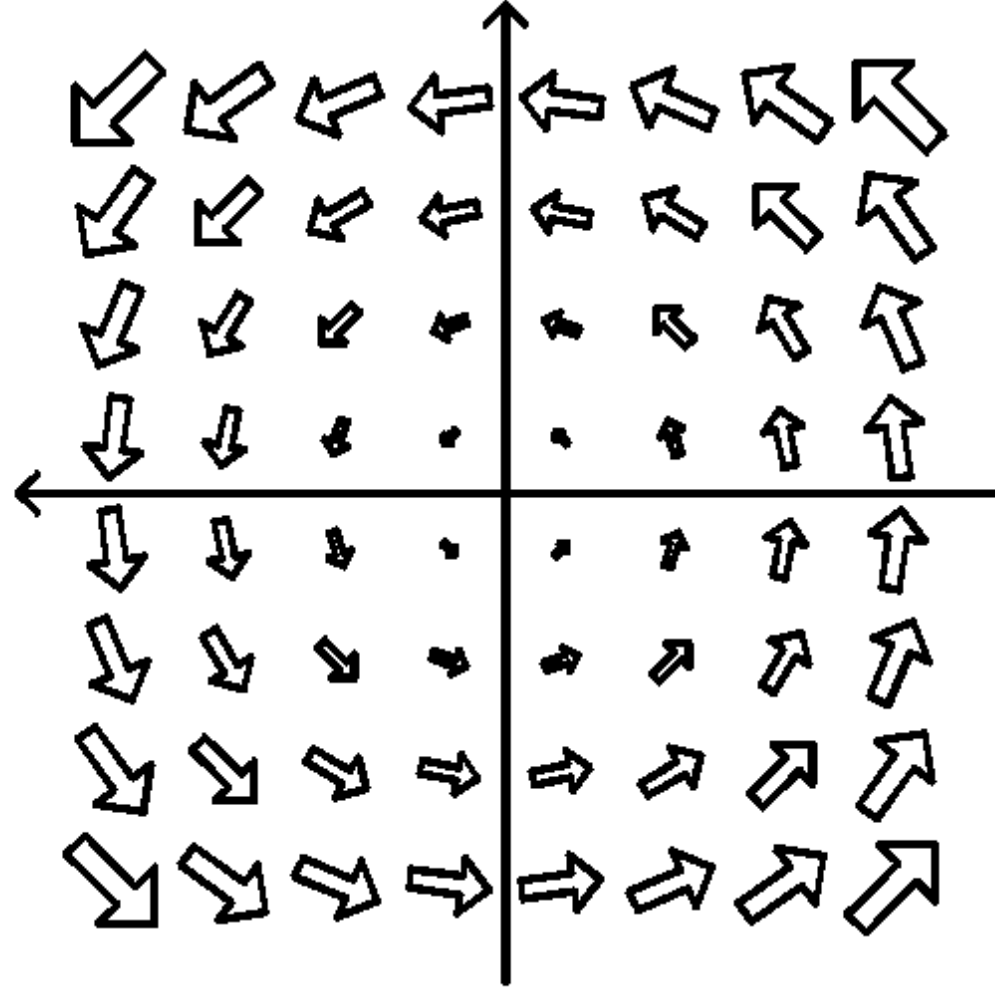
\mathbf{F} , positive divergence



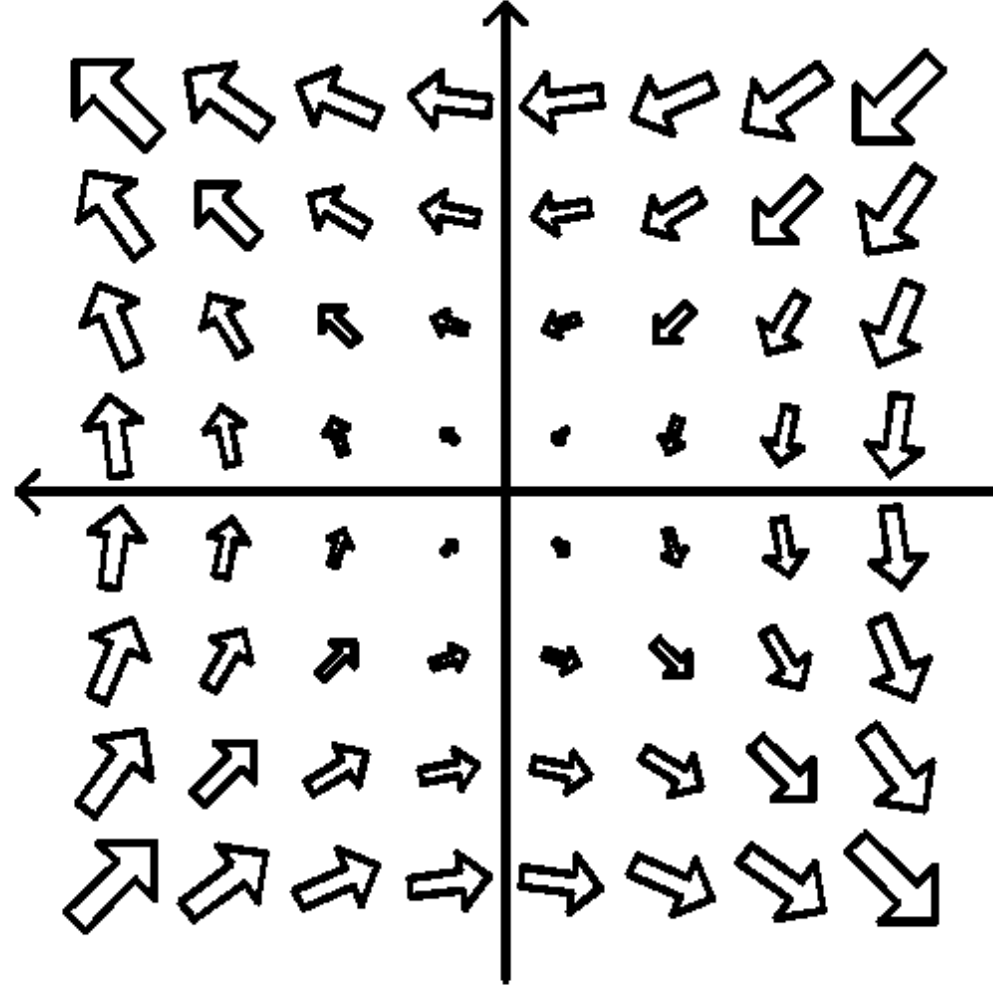
G , incompressible



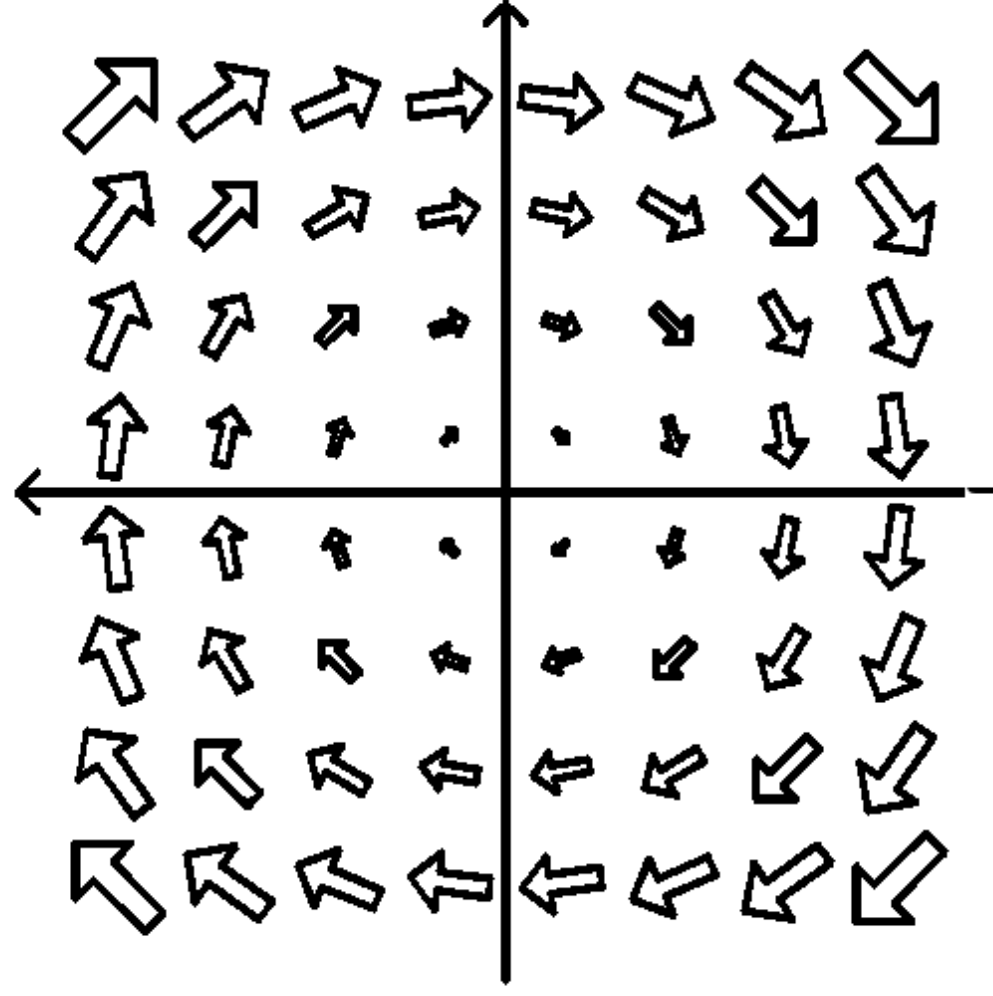
H, negative divergence



F, anticlockwise rotation



\mathbf{G} , irrotational



\mathbf{H} , clockwise rotation