1   M
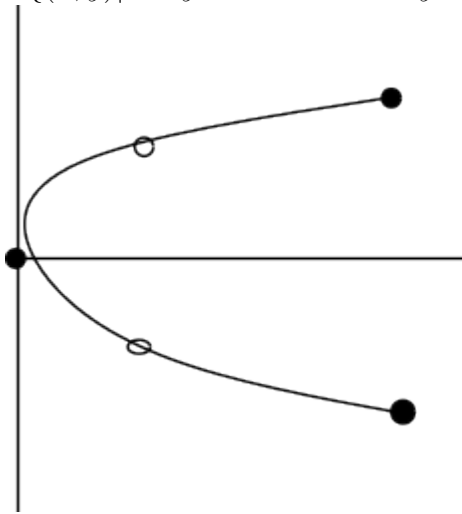
Before: $y = f(x)$
Now: $z = f(x, y)$

Sketch domain of $f(x, y) = \frac{\sqrt{x-y^2}}{1-y^2}$
$D = \{(x, y) | x - y^2 >= 0 \text{ and } 1 - y^2! = 0\}$

Sketch domain of $f(x, y) = y + \ln(x^2 - y)$
Sketch: $f(x, y) = x^2 + 4y^2$
$z = x^2 + ry^2$