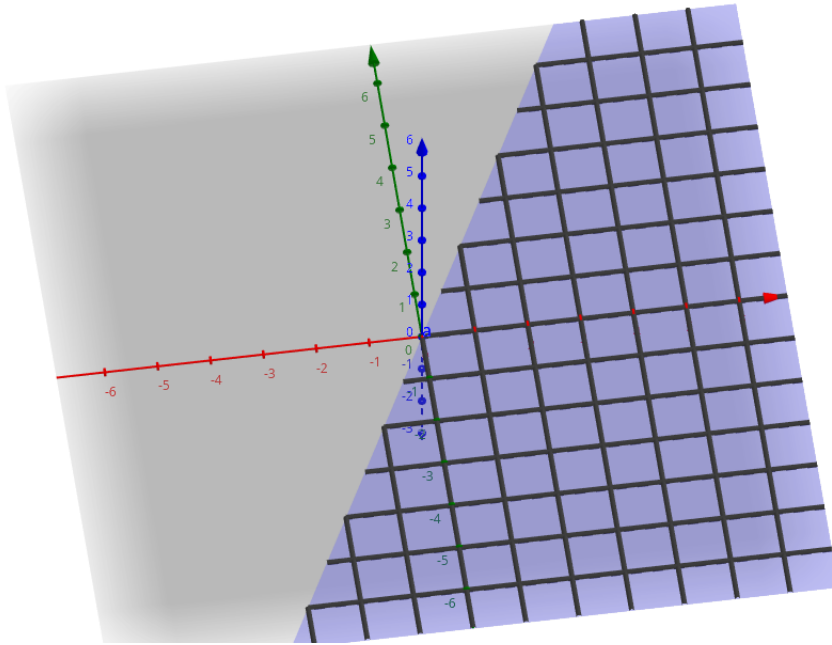


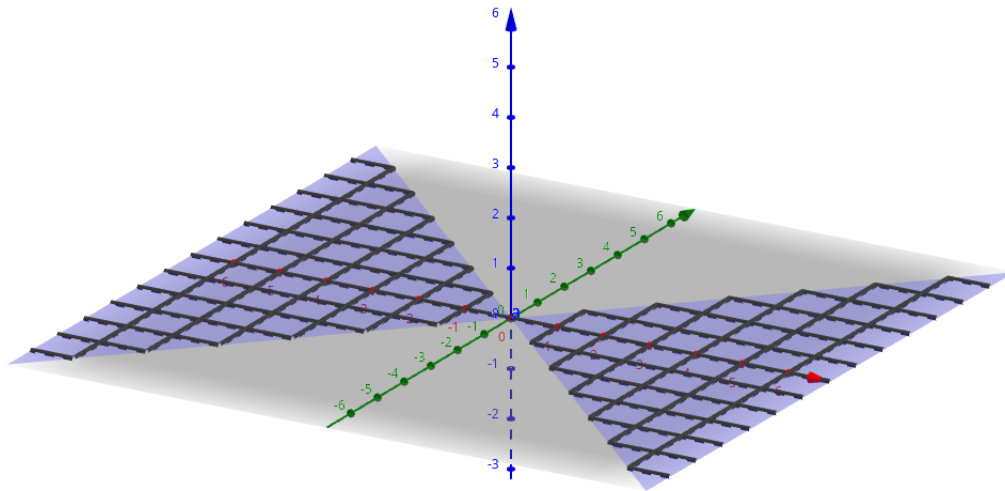
1. $f(x, y) = \sqrt{2x - y}$

$$\Leftrightarrow 2x - y \geq 0 \Leftrightarrow x \geq \frac{y}{2}$$



2. $f(x, y) = \sqrt{x^2 - y^2}$

$$|x| \geq |y|$$



3. $f(x, y, z) = \ln(1 - x^2 - y^2 - z^2)$

$$1 - x^2 - y^2 - z^2 \geq 0$$

