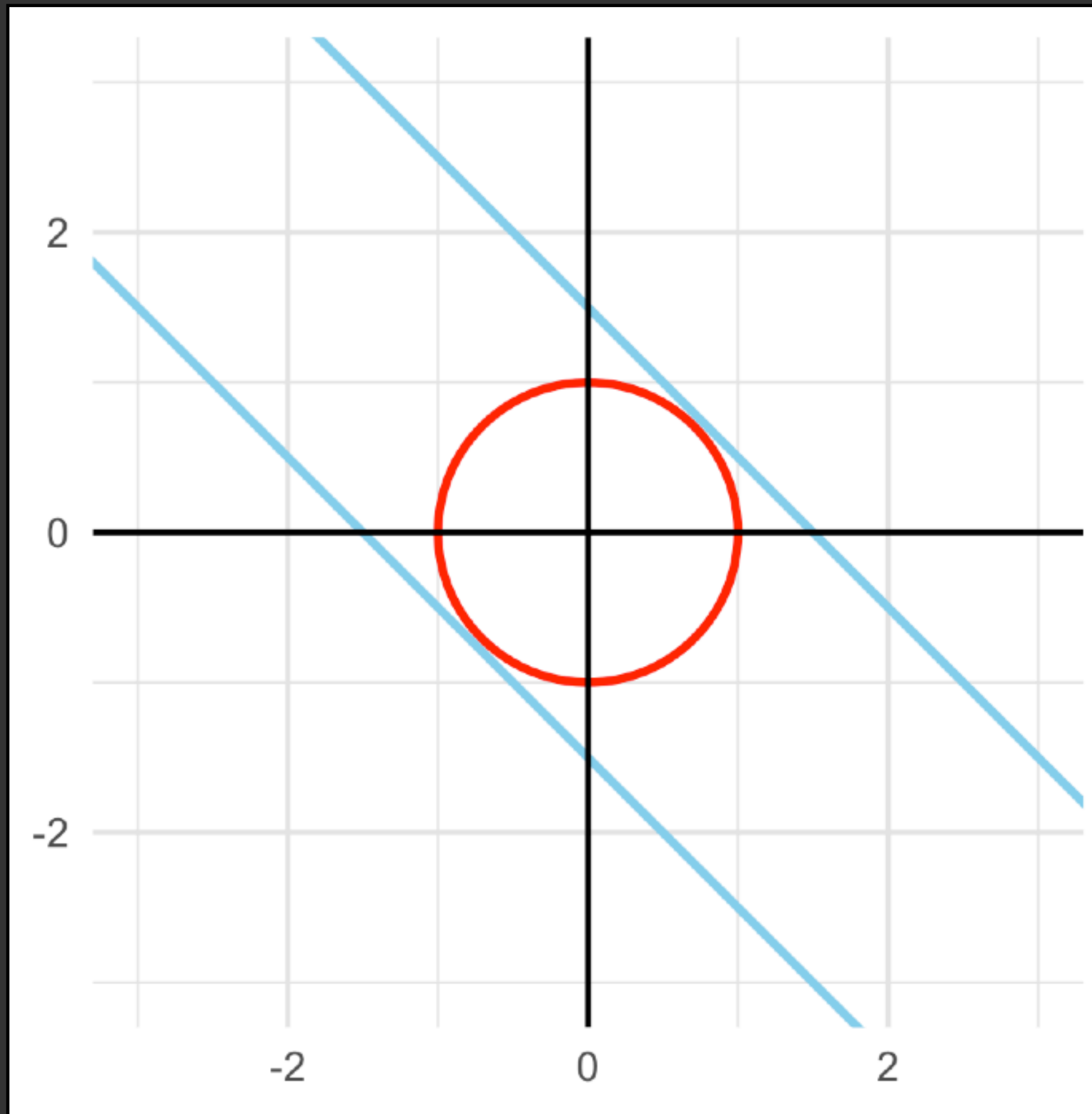


# for your awareness: constrained optimization

optimize  $f(x, y)$  subject to  $g(x, y) = k$



$$f(x, y) = 2x + y$$
$$g(x, y) = x^2 + y^2 = 1$$

