Examples of Other 2D Systems
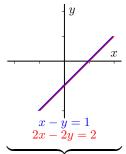
Singular vs non-singular 2D systems:

$x + y = 1$
$x - y = -1$

one point of intersection
a unique solution

$x - y = 1$
$x - y = -1$

parallel lines, no intersection
singular system
with no solution

$x - y = 1$
$2x - 2y = 2$

overlapping lines
singular system
with infinite solutions