## Row Equivalence and Inconsistency

If a system is inconsistent, it is row equivalent to a system with a row of the form

00...0k

for  $k \neq 0$ 

(what happens if k = 0?)

## Summary

Linear equations define <u>hyperplanes</u>

Systems of linear equations may or may not have <u>solutions</u>

Linear systems can be represented as <u>matrices</u>, which makes them more convenient to solve