

Problems for Day 1

Types of solutions

2025-08-18

Here are a few quick problems for you to think about. Don't forget that there's also one MyOpenMath problem for you to do for actual credit! Problem #3 on this sheet is a lot like that.

- 1) [Activity 1.3 part \(a\)](#) from our text
- 2) [Activity 1.3 part \(b\)](#) from our text
- 3) Consider the system

$$\begin{aligned}2x + 3y &= 3 \\ ax + y &= c.\end{aligned}$$

Find values of a and c such that

- a) The system has exactly one solution
- b) The system has infinitely many solutions
- c) The system has no solutions.

Be sure to think geometrically - it might even help to draw a graph!