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## Homework #1

Due on Friday, January 15, 2016.

1. **Problem 2.1.33** Solve the linear system

## 2. Problem 2.1.35

Solve the linear system

x	+	5y	=	-1
-x	+	y	=	-5
2x	+	4y	=	4

## 3. Problem 2.1.40

- (a) Find a system of two linear equations in the variables  $x_1$ ,  $x_2$ , and  $x_3$  whose solution set is given by the parametric equations  $x_1 = t$ ,  $x_2 = 1 + t$ , and  $x_3 = 2 t$ .
- (b) Find another parametric solution to the system in part (a) in which the parameter is s and  $x_3 = s$ .