

Math 131 homework: Linear Diophantine equations, real numbers

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1 Homework

Notes also available as PDF.

Practice is absolutely critical in this class.

Groups are fine, turn in your own work. Homework is due in or before class on Mondays.

- Find **two** integer solutions to each of the following, or state why no solutions exist:
 - $64x + 336y = 32$
 - $33x - 27y = 11$
 - $31x - 27y = 11$
- Problem set 6.3:
 - 5, 6, 9, 10, 13, 14
 - even numbers from 20 up to and including 36
 - 39, 40
 - 57, 58 (alas, I don't think I'll have time to discuss why continued fractions are very interesting and useful)

Note that you *may* email homework. However, I don't use MicrosoftTM products (*e.g.* Word), and software packages are notoriously finicky about translating mathematics.

If you're typing it (which I advise just for practice in whatever tools you use), you likely want to turn in a printout. If you do want to email your submission, please produce a PDF or PostScript document.