- Can we find an integer solution to the equation 4x + 6y = 1?
 - After some reflection, the answer is no: because the left-hand side is even, you can never get 1 on the right-hand side.

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- Ok what about 4x + 6y = 2?
 - Yes we can! For example, x = 2, y = -1 works.
 - Ok, is this the only solution? (Probably not.)
 - Can we find all the solutions???