Homework 13

1. Imagine you get the following trace

0,2,4,6,8,10,12

from your program (which simply doubles the previous value.)

Write out the constraints for this trace, in terms of i, j

2. Polynomial practice

for

$$p(x) = x^3 - 5x^2 - 4x + 20$$

- a) find an integer root a , i.e. p(a) = 0 (clue < 7)
- b) write this in terms of a lower degree polynomial $q(\boldsymbol{x})$

such as p(x) = (x - a)q(x)

What are the degrees of p(x) and q(x)?

Note we are doing this over the real numbers, for zkps we would use a finite field