

even

exercise: finish writing this proof by yourself

Let's try another



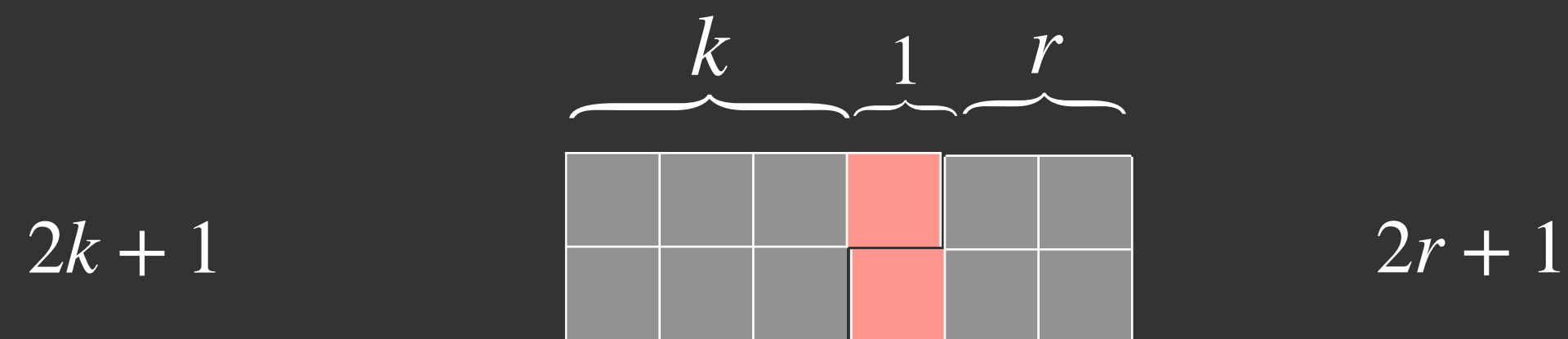
let's try another

Theorem

For all integers m and n , if m and n are odd, then $m+n$ is even.



- Visual intuition



$$\begin{array}{ccccccc} (2k+1) & + & (2r+1) & = & 2(k+r+1) \\ m & + & n & = & 2(s) \end{array}$$

- an integer n is called **even** if there is an integer k where $n = 2k$

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the principle of mathematical induction

everybody do the wave!

