

## 1 Reading

In *A T<sub>E</sub>Xas Style Introduction to Proofs*, read Section 3.2. Read the Quanta Magazine article “Outsiders’ Crack 50-Year-Old Math Problem”,

<https://www.quantamagazine.org/computer-scientists-solve-kadison-singer-problem-20151124/>.

## 2 Response

Answers to these should be written down and turned in in class.

1. Example 3.24 is a specific example of a proof by induction. Which parts are general—that is, which parts would you expect to include, exactly or almost exactly the same, in your own proofs by induction?
2. Questions 3.25, 3.26, and 3.27

## 3 Exercises

You should bring solutions to these to class and be prepared to present them.

1. Statement 3.29

## 4 Homework Problems

Due Thursday, February 20th

1. Statement 3.31
2. Statement 3.38
3. Statement 3.40