

April 21, 2021

### 18.702 Quiz 5

Take this quiz any time on Friday, April 23.

As always: You are required to do the quiz alone.

You may consult the text, but no other source.

**The problem:**

Let  $M$  be the integer lattice in  $\mathbb{R}^2$ , and let  $L$  be the lattice with lattice basis  $((2, 3), (3, 6))$ . Determine the index  $[M : L]$  of  $L$  in  $M$ .