Because there is less time for this assignment, the problems are relatively easy.

1. Chapter 13, Exc. 3.2. \textit{(is lattice an ideal?)}

2. Chapter 13, Exc. 3.4 (d). \textit{(shapes of ideals)}
   
   You may base reasoning on pictures of the lattices, provided that they are accurate.

3. Chapter 13, Exc. 5.2 (a,b). \textit{(ideals in $\mathbb{Z}[\sqrt{-3}]$)}

4. Chapter 13, Exc. 5.3. \textit{(is ring a domain?)}