

Math 29: Homework 6

Due Wednesday, May 17

1. $(A \leq_T \bar{A})$ Exercise 10.1.4.
2. Show that any c.e. degree $\mathbf{a} \neq \mathbf{0}$ contains a simple set. *Hint: We showed in class that if f is a total computable function with incomputable range, then the set $\{x : \exists y(y > x \text{ and } f(y) < f(x)\}$ is simple.*
3. (relativized normal form) Exercise 10.4.10.
4. (K^A) Exercise 10.4.12.
5. (many incomparable degrees) Exercise 10.6.6.