

Math 135: Homework 8

DO NOT HAND IN. Do before the midterm on February 26

1. TP Exercise 28A and B: 18
2. TP Exercise 28D: 16
3. Let a , b , and c be positive constants and let $g(t)$ be a continuous function. Show that if y_1 and y_2 are any solutions to the equation

$$ay'' + b'y + cy = g(t),$$

then

$$\lim_{t \rightarrow \infty} (y_1(t) - y_2(t)) = 0.$$