Math 135: Homework 7
Due Thursday, February 17

1. TP Exercise 28A and B: 18

2. TP Exercise 28D: 14

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

$$ay'' + by' + cy = g(t),$$

then

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