

Problem Set 14, Math 54-Lec 3, Linear Algebra, Fall 2017

NOVEMBER 3RD, 2017

Problem 1 Consider the differential equation: $y'' + 2by' + y = 0$, where b is a real constant. For what values of b does there exist a non-trivial solution $y(t)$ such that $y(t) \rightarrow 0$ as $t \rightarrow \infty$?