## R. Bruner Math 2150, Fall 2006, Quiz 11 29 November 2006

- 1. Explain why the two curves shown above cannot be solutions to a differential equation with continuous coefficients.
- 2. Find the Laplace transform Y of the solution to the differential equation

$$y'' + 4y' + 13y = 1,$$
  $y(0) = 1,$   $y'(0) = -1.$