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Can we describe qualitatively the way the solutions change? The sign of  $a$  is crucial here: 1. If  $a > 0$ , at  $t = 0$ ,  $x = x_0$  when  $k > 0$ , and equals  $x_0$  when  $k < 0$ ; 2. If  $a = 0$ ,  $x = x_0$  at  $t = \text{constant}$ ; 3. If  $a < 0$ ,  $\lim_{t \rightarrow \infty} x = 0$ . The qualitative behavior of solutions is vividly illustrated by sketching the graphs of solutions as in Figure 1.1.

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### **Problem Set III | Math 53h**

James S. Hirsch is former reporter for "The New York Times" and "The Wall Street Journal". He is the author of four nonfiction books, including the "New York Times" bestseller. "Hurricane: The Miraculous Journey of Rubin Carter", which was the basis for the film of the same name starring Denzel Washington.

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