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Math 2150, Fall 2006, Quiz 8
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1. Find the values of k for which $y'' + 6y' + ky = 0$ is underdamped.

2. Find the solution to $y'' + 6y' + 8y = 0$, $y(0) = 2$, $y'(0) = 0$.

3. How many times does this solution cross $y = 0$ for $t > 0$?