

Section 1.3 Definitions, Classification, and Terminology *page 35*

1. second order, linear
3. fourth order, linear
5. second order, nonlinear
7. nonhomogeneous
9. nonhomogeneous
11. nonhomogeneous
21. $r = -2$
23. $r = -3, r = 2$
25. $r = -2, r = -1$
27. $C = 1$
29. $C = 1/2 - \sin 1$
31. $C = 1$
33. (a) $c_1 = 3, c_2 = -2$ (b) $c_1 = 1, c_2 = -5$