

15.1 Concepts Review

1. $r^2 + a_1r + a_2 = 0$; complex conjugate roots
2. $C_1e^{-x} + C_2e^x$
3. $(C_1 + C_2x)e^x$
4. $C_1 \cos x + C_2 \sin x$

Problem Set 15.1

1. Roots are 2 and 3. General solution is $y = C_1e^{2x} + C_2e^{3x}$.
2. Roots are -6 and 1. General solution is $y = C_1e^{-6x} + C_2e^x$.
3. Auxiliary equation: $r^2 + 6r - 7 = 0$, $(r + 7)(r - 1) = 0$ has roots -7, 1.
General solution: $y = C_1e^{-7x} + C_2e^x$
 $y' = -7C_1e^{-7x} + C_2e^x$
If $x = 0$, $y = 0$, $y' = 4$, then $0 = C_1 + C_2$ and $4 = -7C_1 + C_2$, so $C_1 = -\frac{1}{2}$ and $C_2 = \frac{1}{2}$.
Therefore, $y = \frac{e^x - e^{-7x}}{2}$.
4. Roots are -2 and 5. General solution is $y = C_1e^{-2x} + C_2e^{5x}$. Particular solution is $y = \left(\frac{12}{7}\right)e^{5x} - \left(\frac{5}{7}\right)e^{-2x}$.
5. Repeated root 2. General solution is $y = (C_1 + C_2x)e^{2x}$.
6. Auxiliary equation: $r^2 + 10r + 25 = 0$, $(r + 5)^2 = 0$ has one repeated root -5.
General solution: $y = C_1e^{-5x} + C_2xe^{-5x}$ or $y = (C_1 + C_2x)e^{-5x}$
7. Roots are $2 \pm \sqrt{3}$. General solution is $y = e^{2x}(C_1e^{\sqrt{3}x} + C_2e^{-\sqrt{3}x})$.
8. Roots are $-3 \pm \sqrt{11}$. General solution is $y = e^{-3x}(C_1e^{\sqrt{11}x} + C_2e^{-\sqrt{11}x})$.
9. Auxiliary equation: $r^2 + 4 = 0$ has roots $\pm 2i$.
General solution: $y = C_1 \cos 2x + C_2 \sin 2x$
If $x = 0$ and $y = 2$, then $2 = C_1$; if $x = \frac{\pi}{4}$ and $y = 3$, then $3 = C_2$.
Therefore, $y = 2 \cos 2x + 3 \sin 2x$.
10. Roots are $\pm 3i$. General solution is $y = (C_1 \cos 3x + C_2 \sin 3x)$. Particular solution is $y = -\sin 3x - 3 \cos 3x$.
11. Roots are $-1 \pm i$. General solution is $y = e^{-x}(C_1 \cos x + C_2 \sin x)$.
12. Auxiliary equation: $r^2 + r + 1 = 0$ has roots $-\frac{1}{2} \pm \frac{\sqrt{3}}{2}i$.
General solution:
 $y = C_1e^{(-1/2)x} \cos\left(\frac{\sqrt{3}}{2}x\right) + C_2e^{(-1/2)x} \sin\left(\frac{\sqrt{3}}{2}x\right)$
 $y = e^{-x/2} \left[C_1 \cos\left(\frac{\sqrt{3}}{2}x\right) + C_2 \sin\left(\frac{\sqrt{3}}{2}x\right) \right]$
13. Roots are 0, 0, -4, 1.
General solution is $y = C_1 + C_2x + C_3e^{-4x} + C_4e^x$.
14. Roots are -1, 1, $\pm i$. General solution is $y = C_1e^{-x} + C_2e^x + C_3 \cos x + C_4 \sin x$.
15. Auxiliary equation: $r^4 + 3r^2 - 4 = 0$, $(r + 1)(r - 1)(r^2 + 4) = 0$ has roots -1, 1, $\pm 2i$.
General solution: $y = C_1e^{-x} + C_2e^x + C_3 \cos 2x + C_4 \sin 2x$

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