

15.1 Concepts Review

- $r^2 + \alpha_1 r + \alpha_2 = 0$; complex conjugate roots
- $C_1 e^{-x} + C_2 e^x$
- $(C_1 + C_2 x)e^x$
- $C_1 \cos x + C_2 \sin x$

Problem Set 15.1

- Roots are 2 and 3. General solution is $y = C_1 e^{2x} + C_2 e^{3x}$.
- Roots are -6 and 1. General solution is $y = C_1 e^{-6x} + C_2 e^x$.
- Auxiliary equation: $r^2 + 6r - 7 = 0$.
 $(r + 7)(r - 1) = 0$ has roots -7, 1.
General solution: $y = C_1 e^{-7x} + C_2 e^x$
 $y' = -7C_1 e^{-7x} + C_2 e^x$
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, $y = \frac{e^x - e^{-7x}}{2}$.
- Roots are -2 and 5. General solution is $y = C_1 e^{-2x} + C_2 e^{5x}$. Particular solution is $y = \left(\frac{12}{7}\right)e^{5x} - \left(\frac{5}{7}\right)e^{-2x}$.
- Repeated root 2. General solution is $y = (C_1 + C_2 x)e^{2x}$.
- Auxiliary equation:
 $r^2 + 10r + 25 = 0$, $(r + 5)^2 = 0$ has one repeated root -5.
General solution: $y = C_1 e^{-5x} + C_2 x e^{-5x}$ or
 $y = (C_1 + C_2 x)e^{-5x}$

- Roots are $2 \pm \sqrt{3}$. General solution is $y = e^{2x}(C_1 e^{\sqrt{3}x} + C_2 e^{-\sqrt{3}x})$.
- Roots are $-3 \pm \sqrt{11}$. General solution is $y = e^{-3x}(C_1 e^{\sqrt{11}x} + C_2 e^{-\sqrt{11}x})$.
- 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, $y = 2 \cos 2x + 3 \sin 2x$.
- Roots are $\pm 3i$. General solution is $y = (C_1 \cos 3x + C_2 \sin 3x)$. Particular solution is $y = -\sin 3x - 3 \cos 3x$.
- Roots are $-1 \pm i$. General solution is $y = e^{-x}(C_1 \cos x + C_2 \sin x)$.
- Auxiliary equation: $r^2 + r + 1 = 0$ has roots $\frac{-1 \pm \sqrt{3}}{2}i$.
General solution:
 $y = C_1 e^{(-1/2)x} \cos\left(\frac{\sqrt{3}}{2}x\right) + C_2 e^{(-1/2)x} \sin\left(\frac{\sqrt{3}}{2}x\right)$
 $y = e^{-x/2} \left[C_1 \cos\left(\frac{\sqrt{3}}{2}x\right) + C_2 \sin\left(\frac{\sqrt{3}}{2}x\right) \right]$
- Roots are 0, 0, -4, 1.
General solution is $y = C_1 + C_2 x + C_3 e^{-4x} + C_4 e^x$.
- Roots are -1, 1, $\pm i$. General solution is $y = C_1 e^{-x} + C_2 e^x + C_3 \cos x + C_4 \sin x$.
- Auxiliary equation: $r^4 + 3r^2 - 4 = 0$,
 $(r + 1)(r - 1)(r^2 + 4) = 0$ has roots -1, 1, $\pm 2i$.
General solution:
 $y = C_1 e^{-x} + C_2 e^x + C_3 \cos 2x + C_4 \sin 2x$

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