

Problem Set 1.1

1. $y' + 2 \sin 2\pi x = 0$
 $y = \frac{\cos 2\pi x}{-2\pi} + C$

2. $y' + x e^{-x^2/2} = 0$
 $y = e^{-x^2/2} + C$

3. $y' = y$
 $y = e^x + C$

4. $y' = -1.5y$
 $y = e^{-1.5x} + C$

5. $y' = 4e^{-x} \cos x$
 $y = 2e^{-x} (\sin x - \cos x)$

6. $y'' = -y$
 $y = \sin x + C$

7. $y' = \cosh 5.13x$
 $y' = \frac{e^{5.13x} + e^{-5.13x}}{2}$

$y = \frac{1}{10.26} \left[e^{5.13x} - e^{-5.13x} \right]$

8. $y''' = e^{-0.2x}$
 $y = \frac{-1}{0.2 \times 0.2 \times 0.2} e^{-0.2x}$
 $y = \frac{-1}{0.008} e^{-0.2x}$

9. (a) $y' + 4y = 1.4$ — (i)
 $y = ce^{-4x} + 0.35$, $y(0) = 2$ — (ii)

put (ii) in (i)

$-4ce^{-4x} + 4ce^{-4x} + 1.40 = 1.4$

\Rightarrow L.H.S = R.H.S

$\therefore y$ is the solution of the ODE

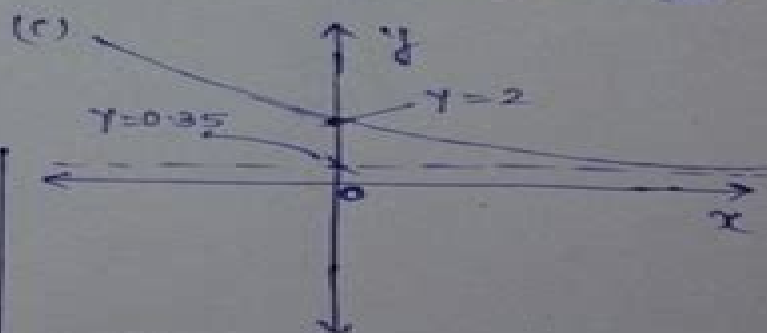
(b) put (ii) in (i)

$2 = ce^{-0} + 0.35$

$\Rightarrow c = 1.65$

$\Rightarrow y = 1.65e^{-4x} + 0.35$

↓
particular soln.



at $x = 0 \Rightarrow y = 2$

at $x \rightarrow \infty \Rightarrow y \rightarrow 0.35$

Mech 200 Advanced Engineering Mathematics I

Websyllabus

Joacim Rocklöv



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in achieving controlled flight in a heavier than air machine This feat was accomplished by them only after meticulous
experiments and a study of the work of others before them like Sir George Cayley Otto Lilienthal and Samuel Langley The
first evidence of the academic community becoming interested in human flight is found in 1883 when Professor J J
Montgomery of Santa Clara College conducted a series of glider tests Seven years later in 1890 Octave Chanute presented a
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papers solicited from U S universities or institutions with a history of programs in Aerospace Aeronautical engineering There
are 69 institutions covered in the 71 chapters This collection of papers represents an authoritative story of the development
of educational programs in the nation that were devoted to human flight Most of these programs are still in existence but
there are a few papers covering the history of programs that are no longer in operation documented in Part I as well as the
rapid expansion of educational programs relating to aeronautical engineering that took place in the 1940s Part II is devoted
to the four schools that were pioneers in establishing formal programs Part III describes the activities of the Guggenheim
Foundation that spurred much of the development of programs in aeronautical engineering Part IV covers the 48 colleges
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