

MATH 802 QUIZES

Quiz #1

Solve  $\sqrt{3-y^2} e^{4x} \sin 2x dx + 7 \cos x dy = 0$

Quiz #2

Find the annihilator of

$$12x^3 e^{-2x} \sin 5x - \frac{1}{\sqrt{11}} (e^x + x)^3 + \sin 2x$$

Quiz #3

Solve using power series

$$3y' - xy = 0, \quad y(1) = 2$$

Quiz #4

$$\text{Solve } \begin{cases} x' = 5x - 4y \\ y' = x + 2z \\ z' = 2y + 5z \end{cases}$$

Quiz #5

$$\text{Solve } X' = \begin{pmatrix} 7 & 0 & -3 \\ -9 & -2 & 3 \\ 18 & 0 & -8 \end{pmatrix} X$$