Wednesday, January 6, 2021 5:40 PM 
$$y'' + y' = 5 \cdot n \quad 20 \times 3$$

Y = COSX+SinX

CH5 = - 25in x + 5in 20x

4, 2 - sinx + cosx

y" = - cosx - sinx

1/2 = C6520X + SinX - 42' = -20 Sin 20X + WSX

42" = -202 COS 20X - 512X

C45 + R175

93 = cosx + sin 20x, y' = - sinx + 20 cos 20x

43" = - COSX - 202 5in 20x

CHS & RHS

2. y (s) = C = 2020

y'= 2020.7×6 ex' = 7x64

LHS = RHS

3. y' + cot x y = 0

- dy = cotxdx

- luigi = , luisinxi + C

f = c sinx

y(=) = - = 2020

$$y = 2020 \frac{1}{51\pi x}$$

$$y' + \frac{1}{7\pi x} y = \sec x \cdot + \frac{1}{2} \cos x / \frac{7}{7} + \frac{1}{2} \cos x$$

$$(1x)^{2} = e^{\int \frac{1}{7} + x} dx = \frac{7}{7} + \frac{1}{2} \cos x + \frac{1}{2} \cos x$$

$$y' = \frac{1}{7\pi x} \left( \int \sec x \cdot + \cot x dx + C \right)$$

$$y(x=0) = \frac{C}{7} = 2 \implies C = \frac{7}{7} = 1$$

$$y' = \frac{1}{7+x} \left( \int \sec x + \frac{7}{7} - 1 \right)$$

$$y'' = \frac{1}{7+x} \left( \int \sec x + \frac{7}{7} - 1 \right)$$

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$$y'' = \frac{1}{7+x} \left( \int \int \int \int \int dy dy = \frac{1}{7} \right)$$

$$(1-xy^{2n})y' = y^{2n}$$

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