Differential Equations summer 20 20 UNIC amonald Bles t (Vuiz 2 Joel Sautz 27 May 2020 1 PRISEART FEMPENPENDE P(0)=20
P(2)=54
P(2)=100 => +0=?

| P(2) = 100 => +0=? P(0)=20 = DP == >40 D=20 P=De M (020 0=20) P(2) = 54 = 20e 2x = 7 27 = exc= 7 /n/37/= 24 $P(2) = SH = 20e^{-1/2} / 10$ $= 7/2() = SH = 20e^{-1/2} / 10$ $= 7/2() = 20e^{-1/2} / 10$ $\therefore P(1) = 20e^{-1/2} / 10$ $\therefore P(1) = 20e^{-1/2} / 10$ $\therefore P(2) = 100 = 20e^{-1/2} / 10$ $\Rightarrow e^{-1/2} /$ $2 \frac{\partial y}{\partial x} = \frac{1}{y^3(1-x^2)^{1/2}}; y(0) = 1$ <=> y3 dy = (1-x2)-1/2 <=> y3dy = JJ-x20x $(=) \frac{1}{4} y^{4} = \sin^{-1}(x) + 4$ $y(x) = \sqrt{4 \sin^{-1}(x)} + 4C$ $y(x) = \sqrt{4 \sin^{-1}(x)} + 4C = 1$ 46=16=>6=6

 $\frac{dy}{dx} = \frac{3}{x} y = x$ Let $p(x)=e^{-3/n(x)+e}$ = $e^{-3/n(x)+e}$ = $e^{-3/n(x)+e}$ = $e^{-3/n(x)+e}$ = $e^{-3/n(x)+e}$ THAT X Y= \(\times \frac{1}{2} $\frac{-x^{-1}+c}{x^{-3}} = \frac{-x'}{x^{-3}} + \frac{c}{x^{-3}}$ $y(x) = -x^{-2} + \frac{c}{x^{-3}} = \frac{-x'}{x^{-3}} + \frac{c}{x^{-3}}$ 1: Y(x)=Cx3-x2 where CER