JANUARY 2020

SUN	MON	TUE	WED	THU	FRI	SAT
			1	2	3	4
5	6 Meet iris First day of class	7	8	9 Differential Assignment 1 start	10 Fees are due Meet Stephanie	11
12 Full Refund (100%)	13	14	15 Differential Assignment 1 DUE	16	17	18
19 10% of course fee withheld.	20	21 Complex ~~Analysis~~ Assignment 1	22	23 Differential Assignment 2 2 Questions are hard	24 ECON QUIZ 1 ('OOOF)	25
26	27	28	29 Differential Assignment 2 Due	30	31	

Holidays and Observances: 1: New Year's Day, 20: Martin Luther King Jr. Day

www.wiki-calendar.com

Differential Equations Assistant Professor Jenn Moyler.

He does post notes ☺

$\frac{dx}{dt} = 8(x^2+1)$ $y = x+1+\frac{C}{x}$

$\int \frac{dx}{x^2+1} = \int 8\,dt$ $y(1)=3$

$\tan^{-1}(x) = 8t$ $3 = 1+1+\frac{C}{1}$

$x = \tan(8t+C)$ $3 = 2+C$

$C = 1$

$1 = \tan(\frac{\pi}{4}+C)$

$1 = \tan(\frac{\pi}{4})+\tan(C)$

$1 = \tan(2\pi+C)$

$\tan^{-1}(1) = 2\pi+C$

$\frac{\pi}{4} = 2\pi+C$

$C = -\frac{7}{4}\pi$