

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 Questions are hard	24 ECON QUIZ 1 (DOOF)	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 Jeni Moyer.

He does past notes ☺

$$y = x + 1 + \frac{c}{x}$$

$$y(1) = 3$$

$$3 = 1 + 1 + \frac{c}{1}$$

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

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

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

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

$$\int \frac{dx}{x^2 + 1} = \int 8 dt$$

$$\tan^{-1}(x) = 8t$$

$$x = \tan(8t + c)$$

$$3 = 2 + c$$

$$c = 1$$