

# 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	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	24	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 Leah Moyler.

He does past notes ☺

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

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

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

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

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

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

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

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

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

$$C = 1$$

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

$$y(1) = 3$$

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