## Introduction to Finance Quiz 2 October 30, 2018

## Problems. Show all work!

Suppose that today is February 15, 2019, and I collected the following STRIPS prices from Bloomberg:

Maturity Date	STRIPS Price
May 15, 2019	99.25
August 15, 2019	98.46
November 15, 2019	97.63
February 15, 2020	96.66
May 15, 2020	95.60
August 15, 2020	94.60
November 15, 2020	93.57
February 15, 2021	92.50
May 15, 2021	91.50
August 15, 2021	90.48
November 15, 2021	89.46
February 15, 2022	88.43
May 15, 2022	87.38
August 15, 2022	86.33
November 15, 2022	85.43
February 15, 2023	84.54

1. (20 points) What are the 1-year, 2-year, 3-year, and 4-year continuously-compounded spot rates on February 15, 2019? Plot these 4 on a yield curve (be sure to label the axes).

2.	Con	sider tl	he Febi	ruary 15	, 2021, 8%	% US Tre	asury not	e.						
	(a)	(18 p	$\mathbf{oints})$	What is	s the valu	e of this	note on F	ebruary	15, 2019	? (Hint:	Make a ti	meline.)		
	(b)	( <b>10 p</b> Expla		Withou	t doing ar	ny additio	onal comp	utations,	what ca	n you say	about thi	is note's y	rield to m	aturity?
	(c)						ws all of ary 15, 2						you were	to buy

3.	Con	sider	r the Mag	y 15, 202	0, 2.5% US	S Treasury	y note.						
	(a)	(18	points)	) What is	the value	of this no	ote on Feb	oruary 15,	2019? (H	int: Make	a timeline.	)	
	(b)		points)	Without	doing any	addition:	al comput	ations, wh	nat can yo	u say abou	t this note's	s yield to m	aturity?
	(c)									ould pay a until it m		if you were	e to buy