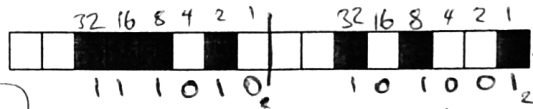


Two pages, 4 problems, 10 points. Show all work. No calculators.

**ASCII Chart**

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
0	NUL	SOH	STX	ETX	EOT	ENQ	ACK	BEL	BS	HT	LF	VT	FF	CR	SO	SI
1	DLE	DC1	DC2	DC3	DC4	NAK	SYN	ETB	CAN	EM	SUB	ESC	FS	GS	RS	US
2	SP	!	"	#	\$	%	&	'	(	)	*	+	,	-	.	/
3	0	1	2	3	4	5	6	7	8	9	:	;	<	=	>	?
4	@	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
5	P	Q	R	S	T	U	V	W	X	Y	Z	[	\	]	^	_
6	`	a	b	c	d	e	f	g	h	i	j	k	l	m	n	o
7	p	q	r	s	t	u	v	w	x	y	z	{		}	~	DEL

Problem 1 (4 points). Decode from ASCII:



:)

$111010_2 = 58_{10} = 3A_{16}$   
 $101001_2 = 41_{10} = 29_{16}$   
 : )

Problem 2 (2 points). Decode the Caesar cipher: FDHVDU.

CAESAR

Problem 3 (1 points). How many bits are there in a kilobyte?

$$1024 \times 8 = 8192$$

Problem 4 (3 points). Find all the primes up to 50.

