Name:	
MATH 308	
Fall 2021	"The problem with people who only want what they can't have is that
HW 3: Due 09/24	once they have what they want, they don't want it anymore." — John Michael Dorian (LD.), Scrub
	= John Michael Dorian L. D. E. Scriin

Problem 1. (10pt) Watch the video New Math (Tom Lehrer). Who was Tom Lehrer? What other songs is he famous for? How does the video relate to the material?

Problem 2. (10pt) Convert the following integers to binary:

- (a) 33
- (b) 156

Problem 3. (10pt) Convert the following binary integers to base-10 integers:

- (a) 101101₂
- (b) 10110100₂

Problem 4. (10pt) Convert the following integers to hexadecimal:

- (a) 59
- (b) 200

Problem 5. (10pt) Convert the following hexadecimal numbers to base-10:

- (a) F1
- (b) 5BF

Problem 6. (10pt) Perform the following operations in binary:

- (a) $101_2 + 11_2$
- (b) $11011_2 + 11101_2$