

## Hw 1-3 Connor Nagel

### Problem 1

addi x30, x10, 8 x30 = 8 A[7]

addi x31, x10, 0 x31 = 8 A[7]

sd x31, 0(x30) x30 = 8 A[7]

ld x30, 0(x30) x30 = 8 A[7]

add x5, x30, x31

r = A[7] + A[7]

### Problem 2

1. x30 = 0x6000000000000000

2. Overflow

3. x30 = 0x1000111111111111

4. Desired Result

5. x30 = 0xE000000000000000

6. Overflow

Problem 3

add  
1000001100001100011000110011  
Add x1 x3 x1

Problem 4

Store doubleword Type-5  
00000010010111110011000001000011  
0 2 5 F 3 0 2 3

025F3023

Problem 5

Sub x6 x7 x5  
0100000010100111000001100110011

Problem 6

ld x3 4(x27)  
00000000010011011011000110000011