Name:	Student #:	
INUITIE.	Student #.	

Due Date: 30 Jan, beginning of class.

Notes:

- Show your work.
- Follow all instructions, to include the Homework Policies and Procedures.
- Make sure your answers are clearly marked.

Part 1. From the text. Complete the following problems

- 1.1
- 1.4
- 1.7
- 1.8
- 1.10
- 1.14
- 1.18
- 1.20
- 1.35
- 1.36

Part 2. Base Conversions (not in the book)

- 2.1 Perform the following conversions:
 - a) 315₁₀ to Base 2
 - b) 467₁₀ to Base 8
 - c) 5B6A₁₆ to Base 10
 - d) 0111 1101₂ (unsigned number) to Base 10
 - e) 367₈ to Base 2
 - f) 66₈ to Base 16
- 2.2 Are the following equal?
 - a) 594₁₀ and 1122₈
 - b) 514₈ and 152₁₆
 - c) 5D9₁₆ and 2730₈
 - d) 22₁₀ and 12₁₆
 - e) 14₈ and 1110₂
 - f) 7₁₆ and 111₂
- 2.3 Perform the following conversions.
 - a) 5_{10} to Base 5.
 - b) 5₇ to Base 6.

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- 2.4 Calculate the numbers -15 to 15 in both 1's and 2's complement. Be sure to have enough bits to adequately represent the range.
- 2.5 Calculate the signed-magnitude, 1's complement and 2's complement for the following numbers.
 - a) ±22₁₀
 - b) $\pm 31_{10}$
 - c) $\pm 25_{10}$
 - d) $\pm 54_{10}$