Name:		Date:	
Section:		Grade:	

1.0 Problem Set #1 – Number Systems Representation, Conversion, and Arithmetic Operations

1.1   Instruction: Complete the table below (Do not forget to write the letter suffix for each number system) [30 pts]:

Binary	Octal	Decimal	Hexadecimal
		947d	**3B3h**
1011 0101b			
			101h
1110 0111b	**347o**		

1.2   Instruction: Perform the following operations in the specified number system [60 pts]:

1.2.1 Binary Operation

(1)	**101101 + 100110 + 111101 + 100001 =**	
(2)	**1 1100 1011 − 1101 0111 =**	
(3)	**10 1011 × 101 =**	
(4)	**10 0110 1101 ÷ 1001 =**	

1.2.2 Octal Operation

(5)	**7407 + 1676 + 1036 =**	
(6)	**6203 − 5677 =**	
(7)	**352 × 224 =**	
(8)	**2355 ÷ 16 =**	

1.2.3 Hexadecimal Operation

(9)	**2ACE + FEED + 404 =**	
(10)	**7 6DAE − 8EFF =**	
(11)	**FADE x 34 =**	
(12)	**DA45 / 2D =**	