	AD Y
	CSCI 113 Assignment 2
	A ₃ B ₃ H ₃ A ₃ B OO O (A·B)+(A·B) OI I OVER Flow
3	
2)	Logic #1 Logic #2
	if (sign of op 1 = - sign of op 2) if (carry in to sign bit ! = carry ant of sign bit if (sign of op != sign of sum) Overflow Overflow ext (sign of op != sign of sum) ext (sign bit of the operands are different from the sign bit of the
	result it averflows. When the carry in to the sign bit is different from the carry out from the sign bit, it overflows. When the carry in and covery out are different and it overflows, the sign of ap! = sign of
20.25. 1.2	the result. Also when sign of ap! = sigh of result and it overflows, the carry in to sign bit! = carry out from sign bit, shown by the above binary addition. Thus we can conclude that logic #1 is equivalent to logic #2.

