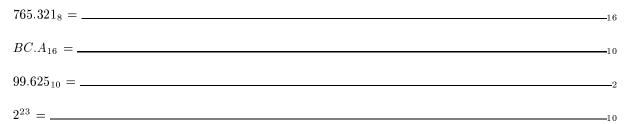
Number Systems and Arithmetic

Part A Convert the following numbers from one notation to another.



Part B For each problem, (a) compute the operation using the rules of addition, expressing your answer in binary notation, (b) indicate whether an error occurs assuming all numbers are expressed using a **six** bit, two's compliment representation, and (c) indicate whether an error occurs assuming all numbers are expressed using a **six** bit, unsigned binary representation. All number are expressed in binary notation.

$1\ 0\ 1\ 0\ 0\ 1$	$1\ 1\ 0\ 1$	$1\ 1\ 0\ 1\ 1$	$1\ 1\ 0\ 1\ 1$
$+\ 1\ 0\ 1\ 1\ 1\ 0$	<u>+ 1 0 1 1</u>	<u>+ 1 1 0 1 0 1</u>	$+\ 1\ 1\ 0\ 1\ 1$
signed error?	signed error?	signed error?	signed error?
unsigned error?	unsigned error?	unsigned error?	unsigned error?