



## Functional Mathematics

### Task 8 - Number Systems

Due Date:

1. Convert the following decimal numbers to binary:

- a) 150
- b) 980

[1 mark]

2. Convert the following binary numbers to decimal:

- a) 111011010
- b) 1011011110

[1 mark]

3. Convert the following decimal numbers to hexadecimal:

- a) 210
- b) 359

[1 mark]

4. Convert the following hexadecimal numbers to decimal:

- a) B9
- b) AD5

[1 mark]

5. Convert the following binary numbers directly to hexadecimal:

- a) 11101
- b) 111000101011

[1 mark]

6. Convert the following hexadecimal numbers to binary:

- a) 1C2
- b) F3A1

[1 mark]

7. Add the following binary numbers:

- a)  $1011110 + 101011$
- b)  $1110001 + 11011$

[2 marks]

8. Multiply the following binary numbers:

- a)  $1110 \times 111$
- b)  $10010 \times 1001$

[2 marks]

