

# ENGINEERING MATHEMATICS

## MIDTERM EXAM REVIEW QUESTIONS

### with answers and solutions

- 1101 in binary is equivalent to 13 in decimal.
  - To convert from binary to decimal, we can use the formula:
  - decimal number =  $a_0 * 2^0 + a_1 * 2^1 + a_2 * 2^2 + \dots + a_n * 2^n$ , where  $a_n$  is the  $n$ th bit from the right.
  - For this question, we have:
  - $1 * 2^0 + 0 * 2^1 + 1 * 2^2 + 1 * 2^3 = 13$ .
- 43 in decimal is equivalent to 101011 in binary.
  - To convert from decimal to binary, we can repeatedly divide the decimal number by 2, and write down the remainder. The binary number is the sequence of remainders, read from bottom to top.
  - For this question, we have:
  - $43 / 2 = 21$  remainder 1
  - $21 / 2 = 10$  remainder 1
  - $10 / 2 = 5$  remainder 0
  - $5 / 2 = 2$  remainder 1
  - $2 / 2 = 1$  remainder 0
  - $1 / 2 = 0$  remainder 1
  - So 43 in decimal is equivalent to 101011 in binary.
- 11011010 in binary is equivalent to DA in hexadecimal.
  - To convert from binary to hexadecimal, we can group the bits into groups of 4, starting from the right, and convert each group to a hexadecimal digit.
  - For this question, we have:
  - 1101 1010 = DA in hexadecimal.
- A8 in hexadecimal is equivalent to 10101000 in binary.
  - To convert from hexadecimal to binary, we can convert each hexadecimal digit to its 4-bit binary representation.
  - For this question, we have:
  - A = 1010
  - 8 = 1000
  - So A8 in hexadecimal is equivalent to 10101000 in binary.
- 11010110 in binary is equivalent to 326 in octal.

# Engineering Mathematics Quiz Questions With Answers

**Clemens Wendtner**



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