

In each case show work and/or justify your answer. Do not use a calculator. Do not copy, do it yourself.

Problem 1. Convert $(12212)_3$ to decimal.

Problem 2. Convert $(543)_7$ to decimal.

Problem 3. Convert $(2CA)_{16}$ to decimal.

Problem 4. Convert $(543)_{10}$ to base two.

Problem 5. Let $n = (2CA)_{16}$.

(a) Convert n to binary.

(b) Convert n to octal.

Problem 6. Let $n = 1234$, written in base 10.

(a) Convert n to binary.

(b) Convert n to octal.

(c) Convert n to hexadecimal.