## Midterm 2 Version 2 Solution

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## Question 1

a.

 $100 \div 3 = 33$ , Remainder **1** 

 $33 \div 3 = 11$ , Remainder **0** 

 $11 \div 3 = 3$ , Remainder 2

 $3 \div 3 = 1$ , Remainder **0** 

 $1 \div 3 = 0$ , Remainder 1

It follows from above that the ternary representation of 100 is  $(10201)_3$ .

Question 2

Question 3

Question 4