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## Problem (3-4)

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### Problem 3

1.0/1.0 point (graded)

There are two primitive roots of unity (**mod 5**).

Choose them.

☐ 1

☒ 2 ✓

☒ 3 ✓

☐ 4



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You have used 1 of 2 attempts

📘 Answers are displayed within the problem

### Problem 4

1.0/1.0 point (graded)

Primitive roots of unity play an important role in modular arithmetic.

Who first rigorously proved the existence of primitive roots of unity (**mod**  $P$ ) for a prime number  $P$ ?

☐ Leonhard Euler

☐ Joseph-Louis Lagrange

☐ Johann Heinrich Lambert

☒ Johann Carl Friedrich Gauss ✓

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You have used 1 of 2 attempts

**i** Answers are displayed within the problem

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