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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 $(\bmod\ 5)$.

Choose them.

☐ 1

☑ **2** ✔

☑ **3** ✔

☐ 4

✔

| Submit | You have used 1 of 2 attempts
|---|

ℹ   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 $(\mathbf{mod}\ P)$ for a prime number P?

○ Leonhard Euler

○ Joseph-Louis Lagrange

○ Johann Heinrich Lambert

◉ Johann Carl Friedrich Gauss ✔

| Submit | You have used 1 of 2 attempts |

❶ Answers are displayed within the problem

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