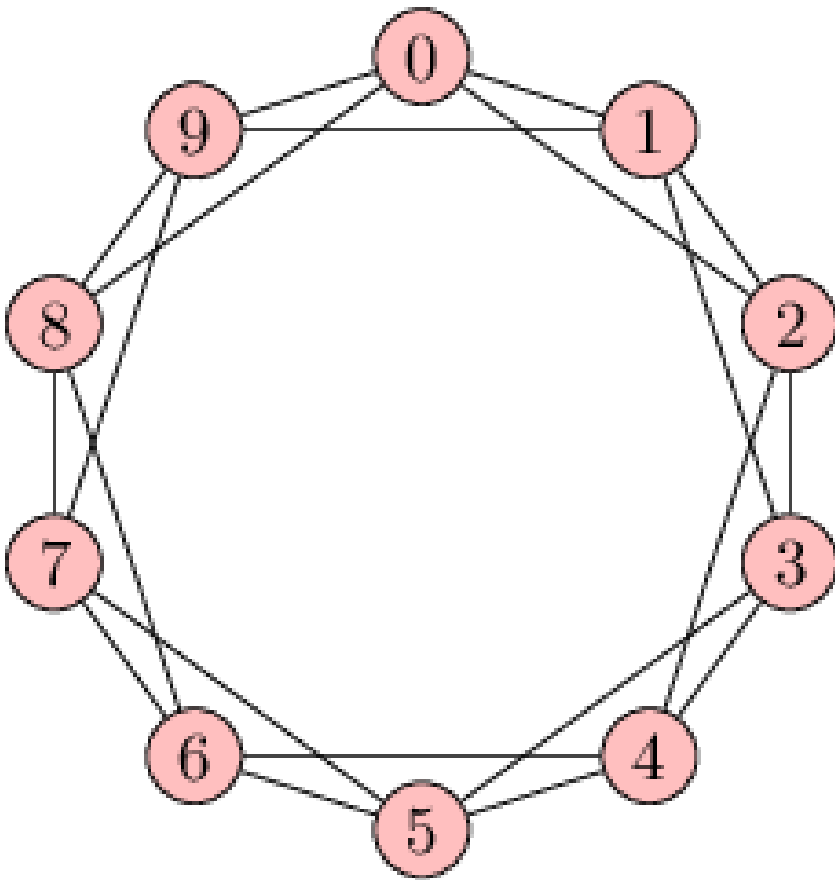


When is the multiplicative group modulo n cyclic?

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Undergraduate Math Club
CORNELL UNIVERSITY



SPEAKER

Aryeh Zax

ABSTRACT

Cyclic groups are important in algebra for their simplicity - they are abelian, and moreover, every finite one is isomorphic to the additive group of integers modulo n . Multiplication is important in number theory, so it's natural to ask: when is the multiplicative group modulo n cyclic? We explore and characterize all such n . No prior knowledge of number theory or algebra is assumed; we aim to be accessible to all levels.

A pictorial representation of a cyclic group

NOV 30 · 4:30

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Malott 5th floor lounge · refreshments served