

# Philadelphia Area Number Theory Seminar

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## Infinite Families of Monogenic Trinomials

**Abstract:** A monic irreducible polynomial  $f(x) \in \mathbb{Z}[x]$  is said to be monogenic if  $\mathcal{O}_K = \mathbb{Z}[\alpha]$  for  $f(\alpha) = 0$  and  $K = \mathbb{Q}(\alpha)$ . One strategy to guarantee