Year: 2011 Vol.: 79 Fasc.: 3-4

Title: The difference graph of S-units

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For a given finite set S of primes we construct a graph on \mathbb{Z} by connecting two integers if their difference is an S-unit. We investigate finite subgraphs of this graph. We show that the average degree is always small. We also meditate on the possible cycles that arise as induced subgraphs.

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