

## Algebra Essentials and Applications Internet Activity

### ***ME1 Euclidean Investigations***

1. What important result did Gabriel Lame prove about the Euclidean Algorithm?

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2. Why is the Euclidean Algorithm a better method than factoring for finding greatest common divisors? Given two integers, the smallest of which contains 100 digits, how many steps would the Euclidean Algorithm require?

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3. Play the game until you develop a winning strategy. Be sure to write down the original numbers. Describe your winning strategy for Euclid's game.

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