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HW 12: 2.42-2.44

M328K

March 1st, 2012

2.42 Theorem. *If n is a natural number and $2^n - 1$ is prime, then n must be prime.*

Proof. Type your proof here! □

2.43 Theorem. *If n is a natural number and $2^n + 1$ is prime, then n must be a power of 2.*

Proof. Type your proof here! □

2.44 Exercise. *Find the first few Mersenne primes and Fermat primes.*

Solution. Type your solution here! □