

marcus something

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Chapter 1

homework

1.1 confirm the following property of the gcd

Oppgave Confirm the following property of the gcd

(a) Prove that if $d|n$, then $(2^d - 1) | (2^n - 1)$ using $dk = n$, $2^{dk} - 1 = 2^n - 1 = (2^d)^k - 1$ Using the expansion $2^x - 1 = (x - 1)(1 + x + x^2 + \cdots + x^{n-1})$ We want to show