

Quiz Seven MTH 213 , Fall 2011

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QUESTION 1. Find the $\gcd(280, 245)$. Then find α_1, α_2 such that $\gcd(280, 245) = 280\alpha_1 + 245\alpha_2$.

QUESTION 2. a) Let $n = 7^2 \times 3^2 \times 21 \times 45$. Find $\Phi(n)$.

b) Let $n = 108$, $D = \{1 \leq a < 108 \mid \gcd(a, 108) = 3\}$.
Find $|D|$ and $\sum_{k \in D} k$

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