

Number Theory:

Problems And Solutions Notes:

What is the prime factorization of 72?

To find the prime factorization of 72, we can start by dividing it by 2 until we can no longer divide it evenly by 2. This gives us:

$$72 \div 2 = 36$$

$$36 \div 2 = 18$$

$$18 \div 2 = 9$$

So far, we have factored out three 2's. The remaining number, 9, is a perfect square and can be factored as 3^2 . Therefore, the prime factorization of 72 is $2^3 * 3^2$.

Find the GCD of 42 and 56.

To find the GCD of 42 and 56, we can start by finding their prime factorizations:

$$42 = 2 * 3 * 7$$

$$56 = 2^3 * 7$$

The common factors are 2 and 7. To find the GCD, we multiply the common factors together:

$$\text{GCD}(42, 56) = 2 * 7 = 14$$

Number Theory Problems Solutions

KJ Lindholm-Leary



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