

Simple Concept Tough Problem - 7

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Hello readers ! We are back with the 7th problem in SCTP series. The problem for today is rather simple. However, in mathematics, simple things tend to become complex all of a sudden. Let's take it up :

Let $P(x)$ be a polynomial with positive integer coefficients such that the product of all the coefficients is 41. The remainder when $P(x)$ is divided by $x-1$ is 78. What is the degree of $P(x)$?

Here is the solution :

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