

Elementary Number Theory Joshua

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Let $e = (p-1)d$. We have $x^{p-1} - 1 = (x^d)^{e-1} = (x^d)^{e-1}((x^d)^e - 1) = (x^d)^{e-1}g(x)$; where $g \in (\mathbb{Z}/p\mathbb{Z})[x]$ and $\deg(g) = d$. Theorem 2.1.20 implies that $x^{p-1} - 1$ has exactly $p-1$ roots in $\mathbb{Z}/p\mathbb{Z}$, since every nonzero element of $\mathbb{Z}/p\mathbb{Z}$ is a root! By Proposition 2.5.3, g has at most $p-1$ roots and $x^{p-1} - 1$ has at most $p-1$ roots.

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