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solutions of $x^5 = ewe$ are done. If bis another solution that is not a power of a , then by the same argument b^2, b^3 and b^4 are four distinct nonidentity solutions. We must further show that b^2, b^3 and b^4 are distinct from a, a^2, a^3, a^4 . If $b^2 = a^i$ for some i , then cubing both sides we have $b = a^3i$ which is a contradiction. A similar argument applies to b^3 and b^4

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$ax \equiv 1 \pmod{n}$ has a solution a has a multiplicative inverse modulo n $a \in U(n)$ $\iff \gcd(a, n) = 1$ Solve the congruence equation $69x \equiv 1 \pmod{31}$. $69x \equiv 1 \pmod{31}$. $69 \equiv 7 \pmod{31}$. $7x \equiv 1 \pmod{31}$. $7 \cdot 9 = 63 \equiv -4 \pmod{31}$. $7 \cdot 9 + 31 = 40 \equiv 9 \pmod{31}$. $7 \cdot 18 = 126 \equiv 3 \pmod{31}$. $7 \cdot 18 + 31 = 49 \equiv 18 \pmod{31}$. $7 \cdot 27 = 189 \equiv -10 \pmod{31}$. $7 \cdot 27 + 31 = 158 \equiv 2 \pmod{31}$. $7 \cdot 27 + 2 \cdot 31 = 190 \equiv 19 \pmod{31}$. $7 \cdot 27 + 3 \cdot 31 = 221 \equiv 26 \pmod{31}$. $7 \cdot 27 + 4 \cdot 31 = 252 \equiv 33 \equiv 2 \pmod{31}$. $7 \cdot 27 + 5 \cdot 31 = 283 \equiv 9 \pmod{31}$. $7 \cdot 27 + 6 \cdot 31 = 314 \equiv 16 \pmod{31}$. $7 \cdot 27 + 7 \cdot 31 = 345 \equiv 23 \pmod{31}$. $7 \cdot 27 + 8 \cdot 31 = 376 \equiv 30 \pmod{31}$. $7 \cdot 27 + 9 \cdot 31 = 407 \equiv 37 \equiv 6 \pmod{31}$. $7 \cdot 27 + 10 \cdot 31 = 438 \equiv 13 \pmod{31}$. $7 \cdot 27 + 11 \cdot 31 = 469 \equiv 20 \pmod{31}$. $7 \cdot 27 + 12 \cdot 31 = 500 \equiv 27 \pmod{31}$. $7 \cdot 27 + 13 \cdot 31 = 531 \equiv 34 \equiv 3 \pmod{31}$. $7 \cdot 27 + 14 \cdot 31 = 562 \equiv 10 \pmod{31}$. $7 \cdot 27 + 15 \cdot 31 = 593 \equiv 17 \pmod{31}$. $7 \cdot 27 + 16 \cdot 31 = 624 \equiv 24 \pmod{31}$. $7 \cdot 27 + 17 \cdot 31 = 655 \equiv 31 \equiv 0 \pmod{31}$. $7 \cdot 27 + 18 \cdot 31 = 686 \equiv 7 \pmod{31}$. $7 \cdot 27 + 19 \cdot 31 = 717 \equiv 14 \pmod{31}$. $7 \cdot 27 + 20 \cdot 31 = 748 \equiv 21 \pmod{31}$. $7 \cdot 27 + 21 \cdot 31 = 779 \equiv 28 \pmod{31}$. $7 \cdot 27 + 22 \cdot 31 = 810 \equiv 35 \equiv 4 \pmod{31}$. $7 \cdot 27 + 23 \cdot 31 = 841 \equiv 11 \pmod{31}$. $7 \cdot 27 + 24 \cdot 31 = 872 \equiv 18 \pmod{31}$. $7 \cdot 27 + 25 \cdot 31 = 903 \equiv 25 \pmod{31}$. $7 \cdot 27 + 26 \cdot 31 = 934 \equiv 32 \equiv 1 \pmod{31}$. $7 \cdot 27 + 27 \cdot 31 = 965 \equiv 8 \pmod{31}$. $7 \cdot 27 + 28 \cdot 31 = 996 \equiv 15 \pmod{31}$. $7 \cdot 27 + 29 \cdot 31 = 1027 \equiv 22 \pmod{31}$. $7 \cdot 27 + 30 \cdot 31 = 1058 \equiv 29 \pmod{31}$. $7 \cdot 27 + 31 \cdot 31 = 1089 \equiv 36 \equiv 5 \pmod{31}$. $7 \cdot 27 + 32 \cdot 31 = 1120 \equiv 12 \pmod{31}$. $7 \cdot 27 + 33 \cdot 31 = 1151 \equiv 19 \pmod{31}$. $7 \cdot 27 + 34 \cdot 31 = 1182 \equiv 26 \pmod{31}$. $7 \cdot 27 + 35 \cdot 31 = 1213 \equiv 33 \equiv 2 \pmod{31}$. $7 \cdot 27 + 36 \cdot 31 = 1244 \equiv 9 \pmod{31}$. $7 \cdot 27 + 37 \cdot 31 = 1275 \equiv 16 \pmod{31}$. $7 \cdot 27 + 38 \cdot 31 = 1306 \equiv 23 \pmod{31}$. $7 \cdot 27 + 39 \cdot 31 = 1337 \equiv 30 \pmod{31}$. $7 \cdot 27 + 40 \cdot 31 = 1368 \equiv 37 \equiv 6 \pmod{31}$. $7 \cdot 27 + 41 \cdot 31 = 1399 \equiv 13 \pmod{31}$. $7 \cdot 27 + 42 \cdot 31 = 1430 \equiv 20 \pmod{31}$. $7 \cdot 27 + 43 \cdot 31 = 1461 \equiv 27 \pmod{31}$. $7 \cdot 27 + 44 \cdot 31 = 1492 \equiv 34 \equiv 3 \pmod{31}$. $7 \cdot 27 + 45 \cdot 31 = 1523 \equiv 10 \pmod{31}$. $7 \cdot 27 + 46 \cdot 31 = 1554 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