

Solution To Number Theory By Zuckerman

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Solution: Writing $17(2x + 3y) = 6z$ shows that z is divisible by 17. Because z is a prime, we must have $z = 17$. We can now divide the whole expression by 17 to get $2x+3y = 6$. Writing this as $3y = 2(3\text{?}x)$ shows that y is divisible by 2. Because y is a prime, $y = 2$. Finally $x = 0$.
• Prove that \sqrt{p} is an irrational number for any prime p .
Solution: Suppose that

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(a) M is a triangular number if and only if $1 + 8M$ is an odd square. (b) N is an odd square if and only if $(N \text{ ? } 1)/8$ is a triangular number. (Note that if N is an odd square, then $N \text{ ? } 1$ is divisible by 8, since $(2k + 1)^2 = 4k(k + 1) + 1$, and $4k(k + 1)$ is a multiple of 8.)

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4 Chapter 1 Solutions Proof. If $(a=b)m=n$, then $am=bn$ $n=1=0$. Thus by Exercise 1.7, $\gcd(m,n)=1$, and so $b=1$. Next suppose $n=1$, $m=a$, b where $(a,b)=1$. Then $n=(a=b)m$, which we now know implies $b=1$. Therefore $n=a$, i.e. n is an m th power. Exercise 1.14. If $(a,b)=1$ and $ab=c^n$, prove that $a=x^n$ and $b=y^n$ for some x and y . [Hint: Consider $d=(a,c)$.] Proof.

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 $x \text{ ? } 3 + 4 + 0 + 1 \pmod{9}$ $x \text{ ? } 8 \pmod{9}$. Therefore 3491 divided by 9 has remainder 8. The above example should convince you that the well known divisibility test for 9 is true: the sum of the digits of a number is divisible by 9 if and only if the original number is divisible by 9.

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 $22/(+q>(h1) +k == 221 +k == 0 \pmod{p}$, and, in view of $21 + CP(h1) > 2'$ we get Thus, the number $221+q>(h1) +k$ is composite and $> a$ since $p = 211 +k \sim 22m +. +k > a$, which completes the proof. This proof fails for $k = 1$ since we do not know if there exist infinitely many composite Fermat numbers.

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