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'2 6 solving equations involving integers

June 4th, 2020 - 2 6 solving equations involving integers recall see section 1 6 that a variable is a symbol usually a letter that stands for a value that varies if a variable in an equation is replaced by a number and a true statement results then that number is called a solution of the equation you try it is 4 a solution of example 1''the four least solutions in distinct positive integers of

May 15th, 2020 - in a list of all positive integers representable as cubic triplets $s^3 + t^3$ up to 7×10^{12} the least solution of was found thus $s = 558\,6963\,472\,309\,248$ $13\,322\,316\,630\,35\,436\,318\,948\,310\,200\,318\,072\,3$ $s = 559\,6963\,472\,309\,248\,5\,436\,318\,948\,310\,200\,318\,072\,3$ $2\,421\,319\,083\,3$ hence $s \leq 6\,963\,472\,309\,248$ '

'find integers x y and z that satisfy $6x + 15y + 20z = 1$

May 24th, 2020 - a find the integers x y and z that satisfy the equation $6x + 15y + 20z = 1$ now i know that i can just guess and get $x = 6$ $y = 1$ and $z = 1$ but there is a part b that asks b under what conditions on a b and c is it true that the equation $ax + by + cz = 1$ has a solution describe a general method of finding a solution when one exists'

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May 25th, 2020 - equations in one unknown let us consider equations of the first degree in one unknown $ax + a_0 = 0$ let the coefficients a_1 and a_0 in the equation be integers it is clear that the solution of this equation $x = -a_0/a_1$ will be an integer only if a_1 integrally divides a_0 thus equation 1 is not always solvable in integers'

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June 4th, 2020 - i will try to walk you through the thought process that was behind the solution rather than just the algebra firstly we note that the numerator

must be strictly positive since the denominator is strictly positive thus we might as well carry'

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May 23rd, 2020 - prove that the pair of equations $i^k x^2 y^2 + 13 = 0$ $i x^2 + 2xy + 2y^2$ has exactly two solutions in integers z and y 14 let r and s be non zero integers prove that the equation $14 = 0$ $r^2 + s^2 = z^2 + 4rsxy$ $r^2 + s^2 = y^2 + 1$ has no solutions in integers z and y '

'what is the sum of the positive integers that are

May 22nd, 2020 - first let s find out the range of n itself by manipulating the equation $\frac{3n^3}{11} > 11$ $3n^3 > 14$ $3n < 14$ $n < \frac{14}{3}$ math alright now let s look at what positive integers fit this condition 1 2 3 4 all work but 5 is bigger'

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June 3rd, 2020 - using the particular solution $(2, 8, 2)$ that erwin found the set of all real solutions is a line parametrized as $(2 + 8t, 2 + 3t, 4 + 5t)$ since we are interested only in nonnegative integral solutions we intersect the line with the nonnegative octant and then with the integer lattice which produces $t = 0, 1, 2$ '

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