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Algebraic proof worksheet with answers

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Question 1: It proves that the amount of 4 successive numbers is always $2n^2 + 10n + 10$. The Oncistaon 2: It proves that the difference between squares of 2 continuously odd numbers is always divided by 8. Question 3: Proves that $(5n + 4)^2 + (5n - 4)^2$ is always divisible by 8. Question 4: Prove identity $(n + 5)^2 - (3n + 5)^2 = (n + 10)(n - 3)$. © GCSEMathsWorksheets.com Show Answers Hide

Question 1: $n + (n + 1) + (n + 2) + (n + 3) = 4n + 6 = 2(2n + 3)$. More than 2 is always there, so the amount of 4 successive numbers is always $2n^2 + 10n + 10$. Question 2: $(2n + 3)^2 - (2n + 1)^2 = 4n^2 + 12n + 9 - (4n^2 + 4n + 1) = 8n + 8 = 8(n + 1)$. Hence, the difference between squares of 2 continuously odd numbers is always divided by 8. Question 3: $(5n + 4)^2 + (5n - 4)^2 = (25n^2 + 40n + 16) + (25n^2 - 40n + 16) = 50n^2 + 32 = 2(25n^2 + 16)$. Question 4: $(N + 5)^2 - (3n + 5)^2 = (n^2 + 10n + 25) - (9n^2 + 30n + 25) = n^2 + 10n - 9n^2 - 30n = (n + 10) - 3(3n + 5)$. © GCSEMathsWorksheets.com September 9, 2019 February 17, 2020

The students often feel like the corbynites. That's not the way to make you learn or to question evidence because they're all different, but they often use the same logic. The following logic will help with various algebraic number proof questions: n is a number so $2n$ must always be $2n + 1$. So the odd $2n + 1$. Note: Factorasang and extension parentheses can often help identify rules so that they keep in mind. Proof by counter example is a way of providing an example in which the statement does not work. Example: Hernan Cortis claims if you have a number square and add 1, the result is an important number. Find more than one example to prove this statement wrong. To make life easier, we'll start with small numbers. $1^2 + 1 = 1 + 1 = 2$, which is important. $2^2 + 1 = 4 + 1 = 5$, which is the great. Now, on this occasion it seems that its statement is true, but if we try the next square number: $3^2 + 1 = 9 + 1 = 10$, which is not important. This is an example for his statement, so we have proved it wrong. Algebraic number is equal proof you will present with a two-way equation, usually with one a. Work with one looks like the other until one side has to play around. For example: $3(n + 3) - 3(n - 1) - 3(1 - n) = 3n + 9 - 3n + 3 - 3 + 3n = 6n + 9 - 3n + 3 = 3n + 12$. Here we need to increase all the brackets and collect the resultant terms. We can see that both sides of the equation are equal. The geometric evidence includes some basic proof about a form, often it Things that you know already you just need to prove it. Example: Prove that Add the interior angle amount of the triangle to 180 degrees Here we can see a triangle with angle a , b and c . We know: $a + b + c = 180$. For example: The lenser proves that the amount of two successive numbers is odd. Step 1: Configure the algebraic number expression. We know that a number can be represented by n , so the next number will be $(n + 1)$. Step 2: Potentially increasing/simplifying expression. $n + n + 1 = 2n + 1$. Step 3: Use expression to prove the statement. For this example, it's easy because the expression is already in the right shape. $2n + 1 =$ Odd number questions included in the index will need a good knowledge of your index rules. Example: Prove that the difference between 24^{12} and 15^{10} is more than one of step 3: Write expression to find the difference in this $24^{12} - 15^{10}$. Step 2: Draw a 3 element from each term. $24^{12} - 15^{10} = (2^3 \cdot 3^2)^{12} - (3 \cdot 5)^{10} = 2^{36} \cdot 3^{24} - 3^5 \cdot 5^{10}$. Step 3: $2^{36} \cdot 3^{24} - 3^5 \cdot 5^{10}$ is more than 300, $2^{36} \cdot 3^{24} - 3^5 \cdot 5^{10} > 300$. A common question proves that one expression has nothing to do with it. For example: Show that $5^{89} - 401$ is not an important number. We strangely know that strange = weird, for this reason, 5^{89} is weird. We know the odd-odd = even $5^{89} - 401 =$ even. It is proven that a strange number of squares is also strange. [3 marks] Step 1: Configure the algebraic number expression. We know that a strange number can be represented by $2n + 1$, which needs to be watchable. $(2n + 1)^2 = 4n^2 + 4n + 1$. Step 2: Potentially enhancing and simplifying expression. $(2n + 1)^2 = 4n^2 + 4n + 1$. Step 3: Use expression to prove statement. How do we know it is strange? Okay, we can take a factor of 2 out. $2(2n^2 + 2n + 1)$. We know that $2n + 1$ is a strange number... $2(2n^2 + 2n + 1)$ is only 2 times (text{some full number}) + 1. For example: Prove that $(n + 2)^2 - (n - 2)^2$ is divided by 8 for any positive whole number. [2 mark] Step 1: $(n + 2)^2 - (n - 2)^2 = 4n^2 + 4n + 1 - (n^2 - 4n + 4) = 3n^2 + 8n - 3$. We can see that n^2 conditions will be cancelled, as 4s, so we are left with all $(n^2 + 4n + 4) - (n^2 - 4n + 4) = 8n$. Full expression $8n$. Easy to step 2: Factorasi $8n = 8(n)$. Now, if n is a full number, then $8(n)$ must be divided by 8. So, we have completed the evidence. We'll try the first few numbers (to add them square and 3) even as we find an example that's not there at this time. So, we get $4^2 + 3 = 16 + 3 = 19$, which is prime. $6^2 + 3 = 36 + 3 = 39$, which is not important. Since divided by 39, it should not be the great, so we have proved the description of The Wrong of The People. Note: There are many counter-examples of The Statement Given to us, and one of them has an acceptable answer to this question. To show that the left and right hand sides of the equation are the same we extend the brackets on the left hand side, $5(3x - 5) - 2(2x + 9) = 15x - 25 - 4x - 18 = 11x - 43$. Therefore we express identity is true. To answer this question, we will need to increase and simplify the expression given to us, so we can hope that this way shows that it is clearly divided by 2 (because it is also defined). So, to increase the first brake, we get $(3n + 1)^2 = 9n^2 + 6n + 1$. Then, expand the second brake, we get $(n - 1)^2 = n^2 - 2n + 1 = n^2 - 2n + 1$. As well as adding trends, we get $(9n^2 + 6n + 1) + (n^2 - 2n + 1) = 10n^2 + 4n + 2$. Also the number is Well, if we take a factor of 2 from expression: $2(5n^2 + 2n + 1)$, we see that $5n^2 + 2n + 1$ since there is a full number because n is a full number, the expression in question is equal to 2 times (text{some full number}) and so on. So, we have completed the evidence. For any 3 continuously odd numbers: $2n + 1$, $2n + 3$, and $2n + 5$, together with adding them provides us, $(2n + 1) + (2n + 3) + (2n + 5) = 6n + 9$. Now, to show that this number is odd, we write this expression instead like $6n + 8 + 1$, then we $6n + 8 + 1 = 2(3n + 4) + 1$ since n There is a full number, clearly $3n + 4$ should also be a full number, so we get that our expression is in form $2(\text{some full number}) + 1$, which is the odd number and must be odd as a result. So, we have completed the evidence. For any 3 continuous even numbers: $2n$, $(2n + 2)$ and $(2n + 4)$, together with their intake we, $2n + 2 + (2n + 4) = 6n + 6$. Now, to show that it is divided by 6 we take only 6 elements, then we take $2n + (2n + 2) + (2n + 4) = 6(n + 1)$. Related topics More lessons for mathematics: Examples of math sheets, solutions, videos, games, activities and workshops that are suitable for mathematics are appropriate to help students learn about evidence linen. 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