Addition and subtraction of monomials worksheet pdf

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Simplify.

$$(3x^3 + 4x^2) + (3x^3 - 4x^2 - 9x)$$

○ $8x^2 + 9x$

○ $-9x$

○ $6x^3 + 8x^2 + 9x$

Get a hint

$$\left(\frac{1}{2}x^3y\right)\left(6xy^2\right)$$
$$= \left(\frac{1}{2} \cdot 6\right)\left(x^3 \cdot x\right)\left(y \cdot y^2\right)$$
$$= (3)(x^4)(y^3)$$
$$= 3x^4y^3$$

Practicing Factoring Perfect Square Trinomials

For Problems 1 - 6, just determine if the given trinomial is a perfect square trinomial. That means that its factored form will be the square of a binomial. **Just answer "yes" or "no." Do not factor!**

1. $25x^2 + 10x - 1$ 2. $25x^2 + 10x + 1$ 3. $16g^2 - 40gz + 25z^2$

4. $9x^2 + 12x - 4$ 5. $9x^2 + 10x + 4$ 6. $36x^2 - 60xy + 25y^2$

For Problems 7 - 25, factor completely:

7. $9x^2 + 6x + 1$ 8. $9x^2 + 12x + 4$ 9. $25x^2 + 10x + 1$

10. $16x^2 + 40xy + 25y^2$ 11. $9x^2 + 30xy + 25y^2$ 12. $25x^2 + 20xy + 4y^2$

13. $36x^2 + 60xy + 25y^2$ 14. $4x^2 - 20x + 25$ 15. $16x^2 - 56x + 49$

16. $25x^2 - 30x + 9$ 17. $9x^2 - 12xy + 4y^2$ 18. $16x^2 - 40xy + 25y^2$

19. $25x^2 - 10xy + y^2$ 20. $49x^2 - 56xy + 16y^2$ 21. $12x^2 - 12x + 3$

22. $18x^2 + 24x + 8$ 23. $9x^3 + 6x^2 + x$ 24. $25x^3 - 10x^2 + x$

25. $50y^3 + 20y^2 + 2y$

Hazel Ross 5/6/2010

Unit 2

MM1A2. Students will simplify and operate with radical expressions, polynomials, and rational expressions.

a. Simplify algebraic and numeric expressions involving square root.

b. Perform operations with square roots.

Adding and Subtracting Radicals Notes	1) Simplify all terms 2) Identify "like terms" a. "like terms" are terms with the same radical attached 3) Add the coefficients of the like terms, the radical stays the same (just like with the variables in the polynomials) 4) Do not combine unlike terms

Work the following problems. Check your answers with the substitute. At the bottom of the back of this sheet are five problems that she does not know the answer to. Answer those questions on your own, then turn them in to the substitute when you finish.

1) $5\sqrt{3} + 2\sqrt{3}$

2) $6\sqrt{2} - 2\sqrt{2}$

3) $2\sqrt{3} + 2\sqrt{12}$

4) $5\sqrt{3} + 2\sqrt{5} + 3\sqrt{27}$

5) $9\sqrt{8} - 2\sqrt{18}$

6) $\sqrt{99} + 2\sqrt{44}$

7) $2\sqrt{3x^2} + 3\sqrt{12x^2}$

8) $7\sqrt{5} - 2\sqrt{27}$

9) $9\sqrt{7} - 2\sqrt{28} + 3\sqrt{63}$

10) $2\sqrt{9} - \sqrt{8} - 3\sqrt{4}$

11) $\sqrt{98} - 3\sqrt{50}$

12) $6\sqrt{5} - 2\sqrt{8} + 3\sqrt{2}$

⑦

	$9x^2$	$9x$	5
$3x$	$27x^3$	$27x^2$	$15x$
-2	$-18x^2$	$-18x$	-10

⑧ $\dfrac{27x^3 + 9x^2 - 3x - 10}{3x - 2} = 9x^2 + 9x + 5$

Addition and subtraction of monomials worksheet pdf.

Would you like to hear the lesson? The search for an interesting and enjoyable topic was long reported in 194; 160; studies is 160; extremely important for students–128;Ó learning, as well as their academic performance, and mathematics is no exception to this. However, at times, math teachers or educators may feel overwhelmed and insecure where to start when it comes to creating a more fun and engaging environment for their students, especially in high schools where students are slowly approaching adulthood. To help, weâ created a list of five awesome math activities for high school that you can easily use in any math class environment. Read more. 5 Mathematics Activities for High School 1. Add Binomials Snake Game Create a story-based game to have your students practice adding two or more binomials. You will need to print boarding passes, worksheets with math problems for each student, as well as the answer keys to all worksheets (these are for you). Start by creating worksheets. Create different groups of worksheets for each group. The worksheets for each student in a group should be the same, but they should be different from other groups. Each worksheet should contain binomial addition problems, including the easiest ones, such as adding two, three binoculars with a single variable, as well as the most difficult ones, such as adding three binomials with multiple variables. Draw the aircraft seats on the worksheets and write a binomial problem for each air station (1A has a problem, 1B a second problem, 2A a third, and so on). Includes a short narrative is 160; at the beginning of each worksheet: I am a passenger on a plane and your plane is infested with snakes. Snakes hide under some of the seats but it's 128; they are not known exactly where. To find out if the pattern is 126;Ás a snake under your seat, youâ ll need to add the math binomial written on your seat. Remember, snakes only hide under seats for which the answer is: Make sure to include at least one mathematical problem in each worksheet for which the answer is zero is 160; as: (-2p5-5p2) + (5p2 +2p5). Divide the students into groups of six and put the boarding tickets in the center, facing down. Students should make a boarding pass so that they know where the years are.226 What? Sit up and find out what mathematical challenge to focus on. The first group that discovers which seats have a binomial problem for which the answers are zero and then discovers where the snakes are the first winners. However, in order to win the game, students need to solve the math problems on all places so that they are sure that there are a snake know to the other places. 2. Polynomial Puzzler Clouds This is one of those high school mathematics activities that are log to empower children is 128; Knowledge of the multiplication of monomials and binomials as well as of trinomials of factoring. To create puzzles, just use the construction paper and cut it into small clouds. Divide the students into groups of four and place the polynomial clouds in half of each group. Place the clouds on the table so that there are three clouds in each row and three clouds in each column. On each cloud of puzzles, write a term so that by multiplying two terms that are next to each other (from left to right and from top to bottom), you get the correct product in the third cloud of puzzle in the column on the right and on the bottom l in e. That's why the order of the puzzle clouds should remain intact. For example, (Puzzler Cloud 1)194; 160; 5th is the puzzler cloud 2) -2x +3x x; 5 multiplied by (-2x+2x) 10xx +1015. Now, leave one or more empty pusillary clouds in each row and ask the children to find the correct answer by multiplying and factoring the polynomials. For example, if children see that in the puzzle 1 have the term 3x ÃeÃÂ 2 and in Puzzler cloud 3 have the product 12x ÃeÃÂ 8, should divide the two polynomials a a The correct answer. That is (12x Â «8Â») ÃfÂ · (3x Â «2) = 4. Because there are some lines with two empty puzzle clouds, students will have to solve math problems one by one to be able to get solutions for all puzzles. The first group that can fill up all the puzzle clouds wins the game. 3. Radical equation Hot Potato explains to students that this business is similar to the traditional game of hot potatoes, with a small modification of the addition of a challenge to radical equation. To make this activity, it is designated an object that serves like Â Â «Hot potato.â€ This could be a small object, like a small pouf or even a real potato. Create different cards with radical equation challenges that students have to solve, such as: Â ¢ â ¢ ¢ (2xÂ ¢ ¢ ¢ 5) Â ¢ â ¢ â ¢ ¢ ¢ â ¢ ¢ ¢ 1) = 1 or â ¢ â ¢ â ¢ ¢ (2x + 9) Â ¢ â ¢ 5 = 0.â, Now ask students to sit in a circle and start distributing the boiling potato. You can choose the student you want to start, give him the boiling potato, and ask them to choose a card from the pile of cards. Make sure only the cards are facing down. Once they have a radical equation to solve, they pass the boiling potato to the person next to them, and try to solve the radical equation before the boiling potato is passed around from everyone in the circle and come back to them. If they do not have the correct answer to then, they lose a point. If they have the right answer, they earn a point. Decide in advance for how many rounds you want to go. After the round number has passed, you look at the points of each student and declares a winner. 4. Breast triangle race After introducing the breast law (ie the relationship between the sides and corners of oblique triangles) to students, you can use this fun game to strengthen their breast knowledge. The only thing you need is building paper, markers and some scissors. We recommend Building paper in different colors so as to make the activity more interesting. Now draw small oblique triangles on the paper and cut them off. Write different numerical values on them, where two sides and an angle in front of them are known or two angles and one side of the triangle. Students are supposed to find the remaining side/angle/s using the law of sines. Divide the students into pairs of two and place a set of triangles in front of them. The triangles should be facing downwards. Each student chooses a triangle and starts calculating. After they found the answer, they put this triangle in their pile and took the next triangle. Students should not choose which triangle to take, but rather always take what is above. Give each group 20 minutes or less (depending on the number of challenges in the triangle you226; 128;ve created). After twenty minutes have elapsed, each student counts the number of triangular challenges the226; 128;ve solved in total. The one with the largest number wins the game. 5. Complex Game Dance Numbers The latest activity on our engaging math activities for the high school list will help you create an engaging atmosphere to practice by adding complex numbers. You can use it for a larger group in class, but it can be easily adjusted as an individual activity if you have already reached 126;Ó is a parent of the family school. Take a huge ball and cover it with a variety of complex numbers that can be added. Be sure to include brackets to make the view easier. For example: (3 +5i) + (4 ÃeÃÂ 3i) or (3 +2i) + (1+7i) Now organize the students into a circle and start passing the ball to random players! When the ball has been handed to someone, they have to check what complex numbers their index fingers are touching and add them. Then they pass the ball to another random student. As students must do mental math to add complex numbers, avoid writing equations excessively There are no winners or winners in the game, but you can adjust if you want to make it more competitive. Pass the ball until the students get tired. This article describes five engaging mathematical activities above who hopes to make your math lessons more fun and facilitate your work as an educator. Have fun in class and see your students learn how to fly! If you are looking for more mathematical resources for children of all ages, check out our blog 160; or head to our site at 160; MathTeachCoach! If you would like to have a preview of the resources we offer, sign up for our freebies194; 160? Algebra Unit 160; It's Algebra Unit. Unit A

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