**EXAM REVIEW**

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| 1. Evaluate  2. The expression written in power form is:  3. Simplify the following expressions using power rules:  a)  b)  c)  4. The equivalent of  as a power with base 2 is:  5. Simplify  6. Expand  7. Write the coefficient of the second term in the polynomial    8. The degree of the expression  is  9. If  then the value of is:  10. If  then the value of  is:  11. If  then the value of  is: | 12. Write an algebraic expression to represent twice a number decreased by three.  13. For the line :  a) the slope is  b) the y-intercept is  c) the slope of a perpendicular line would be:  14. All horizontal lines have a slope of  15. All lines that pass through the origin have a y-intercept of  16. Does the point  lie on the line ?  17. A rectangular prism has .  Find the volume.  18. A triangle has two interior angles equal to   and .  Find the measure of the third interior angle.  19. Evaluate. Leave your answer as a fraction in lowest terms (no decimals).  a) |

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| 1. Solve for :    2. Expand and simplify.    3. Determine the x-intercept of the line  4. Calculate the slope of a line passing through and.  5. Timberlane Athletic Club offers gym memberships for $70 a month with an initiation fee of $250. Show the equation that represents the total cost, C, of joining the gym where m represents the number of months. | 1. Solve.   2. Solve the following equation.    3. Find the dimensions of a rectangle with a perimeter of 240 m, if the length is 4 m longer than the width.  4. A vending machine contains $27.70 made up of dimes and quarters. If there are 199 coins in all, how many dimes and quarters are there?  5. Determine the equation of the line in slope y-intercept form which passes through  and . |