HW #106, Review for Test #101

Here’s what you are supposed to do – READ THIS CAREFULLY

1. Work all problems on notebook paper, showing your work as you should do on all assignments.
2. Go to Mr. Warner’s web site at www.warneralgebra.weebly.com and use the key there to check the assignment as you would check any assignment. There are 20 points possible. Write your score (out of 20) at the top of your paper.
3. Now that you have the answers to the problems, go back and re-work any problems that you missed.
4. When you arrive in class on test day, this assignment needs to be graded and ready to hand in.
5. It is strongly advised that you begin this review the day that it is assigned and complete it as early as possible so that you have sufficient time to get help on any problems with which you have difficulty.

**Copy down on your notebook paper and show all work. Box in your answers.**

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| 1) Solve:  | 2) Solve:  | 3) Solve:  |
|  4) Solve:  | 5) Solve: | 6) Describe the values of *c* for which the equation below has no solutions: |

For #7 and #8; write the following sentence as an inequality:

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| 7) Four times the difference of twice a number and ten is at most fifteen. | 8) The sum of a number and 6 is no more than the product of two and the number. |
| 9) TA: C:\cur_proj\July 2014\AB art\book\Arts\PNGs\HSAlg1_ab_0200_019.pngWrite the inequality that represent the graph below: -3 0 2 | 10) Solve the inequality below and **graph the solution**  |
| 11) Solve the inequality below and **graph the solution.**  | 12) Solve the compound inequality below and **graph the solutions.**   |
| 13) You need to earn at least $75. You earn $6.00 for each hour you work. Write and solve an inequality that represents the number of hours *h* that you need to work. |
| 14) a) Find the value of *x* if the sum of the angles equal 360 degrees. b) Then give the measure of each of the four angles based on your answer to part a)**TA: C:\cur_proj\July 2014\AB art\book\Arts\PNGs\HSAlg1_ab_0100_002.png**  |
| 15) The formula for the volume of a cylinder is  a. Solve the formula for the height *h*. b. A cylinder has a volume of 628 cubic inches and a radius of 10 inches. What is the height of the cylinder rounded to the nearest inch?  |
| 16) Your business needs to print brochures. You call two different print shops about prices. Each print shop charges a set-up fee for preparing the brochure and a price per brochure. a. The total cost is the same for each company. How many brochures is your business printing?

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|  | Brochureset-up fee | Price perbrochure |
| Company A | $50 | $1.50 |
| Company B | $75 | $1.00 |

 b. You decide to increase the number of brochures. From which company should you order? |
| 17) You are planning a school carnival. The equipment costs $180 to rent. You plan to charge $4.00 per ticket. You would like to have a profit of at least $500. Write and solve an inequality that represents the number of tickets *t* that you need to sell. |
| 18) If , what is the value of *x* when *y* = -7 |
| 19) Solve this literal equation for *x*:  |
| 20) Solve the inequality below and graph the solutions  |