Chapter 2 Review Sheet
Do you know HOW?
Use inductive reasoning to describe each pattern and find the next two terms of each sequence.
1. 5, 1, 7, 0, 9, –1, 11 ,
2. 4.5, 0.5, 5.0, 0.6, 5.6, 0.7, 6.3,
Find a counterexample for each statement.
3. An apple is a red fruit.
4. If a parallelogram has four congruent sides, then it is a square.
Write the converse, inverse, and contrapositive for each true statement. Determine the truth value for each.
5. If a polygon is a triangle, then it has exactly three sides.
converse
inverse
contrapositive
6. If Jerrod is in 11th grade, then Jerrod is in high school.
converse
inverse
contrapositive

______Date_____

Rewrite each definition as a biconditional.

Name__

- 7. Squares have four congruent sides and four congruent angles.
- 8. Isosceles trapezoids have two opposite congruent sides.

If possible, make a conclusion from the given true statements. What reasoning did you use?

- 9. If you exercise regularly, then you will have a healthier heart. Ben exercises regularly.
- 10. If the fuel gauge on a car is pointing to "E," then it is time to fill up the gas tank. The fuel gauge in Jani's car is pointing to "E."
- 11. Give a reason for each step of the following algebraic proof

$$4(3-x)=-3$$

$$12 - 4x = -3$$

$$-4x = -15$$

$$x = 3.75$$

12. Find the value of the variable.

