Name: _____ Algebra II
Date: _____ Period: _____ Ms. Ngo

HW # ____: Review # 1

Do the work on another sheet of paper.

1. Give an example for each of the properties.
   a. Commutative property
   b. Associative property
   c. Closure property
   d. Distributive property
2. Simplify $\frac{3}{\sqrt{15}}$
3. Simplify $\frac{\sqrt{72}}{\sqrt{50}}$
4. Simplify $\frac{\sqrt{135}}{\sqrt{15}}$
5. Simplify $\frac{5}{\sqrt{15}}$
6. Simplify $\frac{\sqrt{18}}{\sqrt{12}}$

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7. Let g(x) be the transformation, vertical translation 4 units down, of f(x) = -3x + 7. Write the rule of g(x).
8. Let g(x) be the transformation, vertical translation 6 units up, of f(x) = -3x + 7. Write the rule of g(x).
9. In slope intercept form, write the equation of the line that is <u>parallel</u> to y = -3x + 5 and passes through (3, 5).
10. In slope intercept form, write the equation of the line that is <u>perpendicular</u> to y = -3x + 5 and passes through (3, 5).
11. In slope intercept form, write the equation of the line that is <u>parallel</u> to y = -4x + 6 and passes through (4, 1).
12. Simplify $\sqrt{-9}+8$
13. Solve the inequality $|6x+3| \le -7$.
14. Solve the inequality $|4x+3| > 5$.
15. Solve the inequality $\frac{|x-5|}{8} \le 6$.
16. Solve $-2|6x+3| = 7$.

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