

ALGEBRA 2 HONORS

Name _____

1.1 – NOTATION

Rewrite each of the following inequalities in interval notation.

1. $x > 2$

2. $x \geq -3$

3. $y \leq 4$

4. $z < -5$ or $z \geq 6$

5. $-9 < x \leq 7$

Rewrite each of the following intervals as an inequality.

6. $x \in (-3, \infty)$

7. $y \in (-\infty, 11]$

8. $z \in [7, 8]$

9. $x \in [2, 5)$

10. $y \in (-\infty, -1) \cup (2, \infty)$

Rewrite each of the following collections of values using set notation.

11. $x = 2$ or $x = 3$

12. $y = -1$ or $y = 0$ or $y = 17$

13. $x = \pm\sqrt{5}$

Evaluate each of the following expressions.

14. Find $f(2)$ given $f(x) = 3x - 7$.

15. Find $g(-1)$ given $g(x) = 3x^2 - 2x + 5$.

16. Find $h(-3)$ given $h(x) = |2x + 1| - 5$.

17. Find $f(x+1)$ given $f(x) = 2x + 8$.