

Name:

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HOMEWORK 5.1

Secondary Math II

Turned in On Time (4 pts.) <input type="checkbox"/>	0A. (2 pt.) Convert from interval notation to set notation. $(-5,6) \cup [9,\infty)$
	0B. (2 pt.) Convert from set notation to interval notation. $\{x \mid -10 \leq x < -9 \text{ or } x > 2\}$

Review

1 (1 pt.) Write the function below in factored form. $f(x) = x^2 - 64$	2. (1 pt.) What is the y-intercept of the function below? Write as an ordered pair. $f(x) = 5x^2 + 6x + 7$	3. (1 pt.) Find the solution(s) to the equation below. $2 = 4x^2 + 7x$
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Classroom Exercise #4 (3 pts.) <input type="checkbox"/>	4A. (1 pt.) Draw a line graph for the following interval: $(-\infty, -5]$
	4B. (1 pt.) Draw a line graph for the following interval: $(-\infty, -5)$
	4C. (1 pt.) Draw a line graph for the following interval: $(-\infty, 5]$

Convert the following from Interval Notation to Set Notation.

5. (1 pt.) $(3, \infty)$	6. (1 pt.) $[3, \infty)$	7. (1 pt.) $(-4, 0]$
8. (1 pt.) $(-\infty, 5]$	9. (1 pt.) $(-\infty, \infty)$	10. (1 pt.) $[-2, 0] \cup [3, \infty)$

Classroom Exercise #11

(3 pts.)



11A. (1 pt.) Write the following in Interval Notation.
 $\{x \mid x > 6\}$

11B. (1 pt.) Write the following in Interval Notation.
 $\{x \mid x \leq 4\}$

11C. (1 pt.) Write the following in Interval Notation.
 $\{x \mid x \leq -3 \text{ or } x > 0\}$

Convert each of the following from Set Notation into Interval Notation.

12. (1 pt.)
 $\{x \mid x \in \mathcal{R}\}$

13. (1 pt.)
 \emptyset

14. (1 pt.)
 $\{x \mid -4 < x < 5\}$

15. (1 pt.)
 $\{x \mid x \leq 0 \text{ or } x > 3\}$

16. (1 pt.)
 $\{x \mid -4 \leq x \leq 1 \text{ or } x > 5\}$

17. (1 pt.)
 $\{x \mid x < -6 \text{ or } x > -2\}$

18. (1 pt.)
 $\{x \mid -6 \leq x < 0\}$

19. (1 pt.)
 $\{x \mid x \geq -1\}$

20. (1 pt.)
 $\{x \mid -7 < x \leq -2 \text{ or } 2 \leq x < 18\}$