HW 5-1 NAME \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Secondary Math 3 PERIOD \_\_\_\_\_\_\_\_\_\_\_\_

**Simplify. Use absolute value signs when necessary**

1.  2. 

3.  4. 

5.  6. 

7.  8. 

9.  10. 

11.  12. 

13.  14. 

 **Evaluate.**

16. 17. 18. 19. 20.

**Simplify.**

21. 22. 23. 24.

**Evaluate without a calculator.** **Write in radical form, then simplify.**

25. 26. 27. 28. 29.

**Simplify. Rationalize the denominator if needed.**

30. 31. 32.

**Review**

Solve the following polynomial inequalities

1. (x + 1)(x² − 5x + 6) ≤ 0 2. (x + 1)(x − 3)² > 0

**Selected Answers:**

2. 10

4. 

6. 

8. 

10. 

12. 

14. 

16. 

18. 

20. 5

22. 

24. 

26. 8

28. 4

30. 

32. 