

## Algebra 1B Homework Check (11-7)

(Please attach homework to this sheet and fill out the questions below.)

Pg. 813: 1-20

1. **Vocabulary** Give an example of *like radicals*.

Add or subtract.

2.  $14\sqrt{3} - 6\sqrt{3}$

3.  $9\sqrt{5} + \sqrt{5}$

4.  $6\sqrt{2} + 5\sqrt{2} - 15\sqrt{2}$

5.  $3\sqrt{7} + 5\sqrt{2}$

6.  $5\sqrt{a} - 9\sqrt{a}$

7.  $9\sqrt{6a} + 6\sqrt{5a} - 4\sqrt{6a}$

Simplify each expression.

8.  $\sqrt{32} - \sqrt{8}$

9.  $4\sqrt{12} + \sqrt{75}$

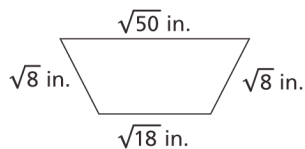
10.  $2\sqrt{3} + 5\sqrt{12} - \sqrt{27}$

11.  $\sqrt{20x} - \sqrt{45x}$

12.  $\sqrt{28c} + 9\sqrt{24c}$

13.  $\sqrt{50t} - 2\sqrt{12t} + 3\sqrt{2t}$

14. **Geometry** Find the perimeter of the trapezoid shown. Give your answer as a radical expression in simplest form.



Name: \_\_\_\_\_

Class: \_\_\_\_\_

Hour: \_\_\_\_\_

Add or subtract.

15.  $4\sqrt{3} + 2\sqrt{3}$

16.  $\frac{1}{2}\sqrt{72} - 12$

17.  $2\sqrt{11} + \sqrt{11} - 6\sqrt{11}$

18.  $6\sqrt{7} + 7\sqrt{6}$

19.  $-3\sqrt{n} - \sqrt{n}$

20.  $2\sqrt{2y} + 3\sqrt{2y} - 2\sqrt{3y}$