

Adding and Subtracting Roots

Simplify each square root.

1. $3\sqrt{7} + 5\sqrt{7}$

2. $10\sqrt{4} - \sqrt{4}$

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

4. $12\sqrt{11} + 7\sqrt{11}$

5. $2\sqrt{7} + 4\sqrt{7}$

6. $3\sqrt{6} - 8\sqrt{6}$

7. $\sqrt{13} - 5\sqrt{13}$

8. $4\sqrt{2} + 2\sqrt{2}$

9. $13\sqrt{15} - 11\sqrt{15}$

10. $17\sqrt{21} - 12\sqrt{21}$

11. $2\sqrt{12} + 6\sqrt{12}$

12. $19\sqrt{3} + \sqrt{3}$

13. $9\sqrt{2} - 5\sqrt{2}$

14. $12\sqrt{6} - 4\sqrt{6}$

Extra Credit:

15. $5\sqrt{7} + \sqrt{28}$

16. $8\sqrt{3} - \sqrt{75}$