

Simplifying Radicals (C)



Section A Simplify the following radicals.

1) $5\sqrt{2} + 7\sqrt{2}$ _____

2) $7\sqrt{2} - 4\sqrt{2} + 9\sqrt{3} - 2\sqrt{3}$ _____

3) $11\sqrt{5} + 3\sqrt{7} + 4\sqrt{5} + 6\sqrt{7}$ _____

4) $16\sqrt{5} + 9\sqrt{7} - 7\sqrt{5} - 4\sqrt{7}$ _____

5) $3\sqrt{2} + 7\sqrt{3} - 7\sqrt{3} - 8\sqrt{2}$ _____

6) $\sqrt{18} + \sqrt{50}$ _____

7) $\sqrt{72} - \sqrt{8}$ _____

8) $4\sqrt{12} + 2\sqrt{27}$ _____

9) $5\sqrt{28} - 3\sqrt{63}$ _____

10) $2\sqrt{45} + 5\sqrt{20} - 4\sqrt{98}$ _____

Section B Expand the parentheses and simplify the radicals.

1) $\sqrt{3}(2 - \sqrt{3})$ _____

2) $2\sqrt{7}(7 - \sqrt{7})$ _____

3) $\sqrt{5}(5\sqrt{5} - \sqrt{3})$ _____

4) $2\sqrt{11}(4 - \sqrt{11})$ _____

5) $(\sqrt{7} + 3)(\sqrt{7} - 3)$ _____

6) $(8 + \sqrt{5})(8 - \sqrt{5})$ _____

7) $(5 + \sqrt{3})(4 + 2\sqrt{3})$ _____

8) $(7\sqrt{5} + 2)(\sqrt{5} + 4)$ _____

9) $(1 - 3\sqrt{7})(6 - 3\sqrt{7})$ _____

10) $(\sqrt{3} - 1)(9\sqrt{3} + 5)$ _____

11) $(4\sqrt{7} + 3)(3\sqrt{7} - 1)$ _____

12) $(4\sqrt{3} - \sqrt{2})(3\sqrt{3} - 4\sqrt{2})$ _____

Section C Expand the parentheses and simplify the radicals.

1) $(\sqrt{2} + 1)^2$ _____

2) $(\sqrt{11} - 2)^2$ _____

3) $(3 - \sqrt{5})^2$ _____

4) $\sqrt{22}(\sqrt{3} + \sqrt{7})^2$ _____

5) $\sqrt{11}(\sqrt{11} - \sqrt{6})^2$ _____

6) $((\sqrt{2})^3 + \sqrt{5})^2$ _____

Algebra 1 Review Simplifying Radicals

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