

Algebra 1

Adding & Subtracting Radicals Tic-Tac-Toe

Name: _____

Date: _____ Block: _____

Choose any box to start with. Work 5 problems in a ROW or COLUMN and circle your final answer. Then, have a teacher check it. If you get the problem correct, you will get an "O" and if you get the problem incorrect, I get an "X." If you get an "X," you must attempt additional problems until you get 5 in a ROW or COLUMN. If you run out of options to get tic-tac-toe then you have to work ALL the problems. Be sure to double check your answer BEFORE you bring it up to be checked!

Directions: Simplify each radical expression or product of radicals.

1. $3\sqrt{5} - 2\sqrt{5}$	2. $5\sqrt{3}(-4\sqrt{2} - 4\sqrt{6})$	3. $\sqrt{6}(\sqrt{3} + \sqrt{2})$	4. $-4\sqrt{63} + 3\sqrt{7}$	5. $\sqrt{18} + \sqrt{8}$
6. $\sqrt{45} + \sqrt{20}$	7. $-8\sqrt{3} + 4\sqrt{3}$	8. $2\sqrt{6}(-3\sqrt{2} + 5\sqrt{10})$	9. $\sqrt{5}(\sqrt{2} + \sqrt{10})$	10. $4\sqrt{48} - 2\sqrt{3}$
11. $2\sqrt{27} + 3\sqrt{12}$	12. $\sqrt{27} - \sqrt{48}$	13. $2\sqrt{2} + 5\sqrt{2}$	14. $-3\sqrt{3}(-\sqrt{6} + 5)$	15. $\sqrt{3}(\sqrt{6} + 3)$
16. $\sqrt{5}(\sqrt{5} + 3)$	17. $3\sqrt{45} - 2\sqrt{5}$	18. $\sqrt{54} + \sqrt{24}$	19. $-2\sqrt{7} - \sqrt{7}$	20. $5\sqrt{6}(2 - 2\sqrt{3})$
21. $-\sqrt{3}(-4\sqrt{2} + 3\sqrt{6})$	22. $\sqrt{5}(\sqrt{6} + 5)$	23. $3\sqrt{24} + 3\sqrt{6}$	24. $\sqrt{27} - \sqrt{12}$	25. $-6\sqrt{10} - 2\sqrt{10}$