Name:

Date:

Adding and Subtracting Radical Expressions

Simplify.

1) $-3\sqrt{22} - 4\sqrt{22}$

2) $\sqrt{27\,a^2\,b} - a\sqrt{12\,b}$

3) $5\sqrt{3} - \sqrt{27}$

4) $-4\sqrt{7a\,b} - 4\sqrt{7\,a\,b}$

5) $-10\sqrt{7} + 12\sqrt{7}$

6) $3\sqrt{8} + 3\sqrt{2}$

7) $2\sqrt{45} - 2\sqrt{5}$

8) $-12\sqrt{35} + 14\sqrt{35}$

9) $5\sqrt{10} + 4\sqrt{10}$

10) $-6\sqrt{19} - 6\sqrt{19}$

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1) $-3\sqrt{22} - 4\sqrt{22}$

$-7\sqrt{22}$

2) $\sqrt{27\,a^2\,b} - a\sqrt{12\,b}$

$5a\sqrt{3\,b}$

3) $5\sqrt{3} - \sqrt{27}$

$2\sqrt{3}$

4) $-4\sqrt{7a\,b} - 4\sqrt{7\,a\,b}$

$-8\sqrt{7\,a\,b}$

5) $-10\sqrt{7} + 12\sqrt{7}$

$2\sqrt{7}$

6) $3\sqrt{8} + 3\sqrt{2}$

$9\sqrt{2}$

7) $2\sqrt{45} - 2\sqrt{5}$

$4\sqrt{5}$

8) $-12\sqrt{35} + 14\sqrt{35}$

$2\sqrt{35}$

9) $5\sqrt{10} + 4\sqrt{10}$

$9\sqrt{10}$

10) $-6\sqrt{19} - 6\sqrt{19}$

$-12\sqrt{19}$