



Multiplying Radical Expressions

Version 2

Name: _____

Date: _____

Score: _____

Direction: Simplify by multiplying the radical expressions. Show all your work in the space provided.

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

2) $\sqrt{5}(3\sqrt{5}-\sqrt{20})$

3) $(7+2\sqrt{7})(1-2\sqrt{7})$

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

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

6) $(-\sqrt{11}+\sqrt{2})(\sqrt{11}-\sqrt{2})$



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

$3-2\sqrt{6}$

2) $\sqrt{5}(3\sqrt{5}-\sqrt{20})$

5

3) $(7+2\sqrt{7})(1-2\sqrt{7})$

$-21-12\sqrt{7}$

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

$12-5\sqrt{6}$

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

$-25+10\sqrt{6}$

6) $(-\sqrt{11}+\sqrt{2})(\sqrt{11}-\sqrt{2})$

$-13+2\sqrt{22}$