Name:

Date:

Multiplying Radical Expressions

Simplify.

1) $2\sqrt{20\,x^2} \times \sqrt{5\,x^2}$

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

3) $5\sqrt{42} \times \sqrt{3}$

4) $-12\sqrt{7\,x} \times \sqrt{5\,x^3}$

5) $\sqrt{12}\,(3 + \sqrt{3})$

6) $(\sqrt{5} - \sqrt{3})(\sqrt{5} + \sqrt{3})$

7) $\sqrt{18\,x}\,(4 + \sqrt{6\,x})$

8) $\sqrt{12\,x^2} \times \sqrt{14\,x^3}$

9) $(11 - 4\sqrt{5})(6 - \sqrt{5})$

10) $\sqrt{3\,x}\,(6\,x^3 + \sqrt{27})$

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1) $2\sqrt{20x^2} \times \sqrt{5x^2}$

$20x^2$

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

$6\sqrt{3} - 10$

3) $5\sqrt{42} \times \sqrt{3}$

$15.\sqrt{4}$

4) $-12\sqrt{7x} \times \sqrt{5x^3}$

$-12x^2.\sqrt{35x}$

5) $\sqrt{12}(3 + \sqrt{3})$

$6\sqrt{3} + 6$

6) $(\sqrt{5} - \sqrt{3})(\sqrt{5} + \sqrt{3})$

2

7) $\sqrt{18x}(4 + \sqrt{6x})$

$3\sqrt{14x} - 2x\sqrt{7}$

8) $\sqrt{12x^2} \times \sqrt{14x^3}$

$2x^2\sqrt{42x}$

9) $(11 - 4\sqrt{5})(6 - \sqrt{5})$

$-35\sqrt{5} + 86$

10) $\sqrt{3x}(6x^3 + \sqrt{27})$

$18\sqrt{3}.x^2 + 9x$