

6 2 practice multiplying and dividing radical expressions answers

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6.2 Practice: Multiplying and Dividing Radical Expressions Answers

Question 1: Simplify: $\sqrt{24} \cdot \sqrt{54}$

Answer: $\sqrt{24} \cdot \sqrt{54} = \sqrt{(24 \cdot 54)} = \sqrt{1296} = 36$

Question 2: Simplify: $(\sqrt{12} - \sqrt{8}) / (\sqrt{3} - \sqrt{2})$

Answer: $(\sqrt{12} - \sqrt{8}) / (\sqrt{3} - \sqrt{2}) = ((\sqrt{12} - \sqrt{8}) (\sqrt{3} + \sqrt{2})) / ((\sqrt{3} - \sqrt{2}) (\sqrt{3} + \sqrt{2})) = (\sqrt{36} - \sqrt{24}) / (3 - 2) = (6 - \sqrt{24}) / 1 = 6 - \sqrt{24}$

Question 3: Simplify: $\sqrt{2x^2 - 8x + 8}$

Answer: $\sqrt{2x^2 - 8x + 8} = \sqrt{(2x - 4)^2} = 2x - 4$

Question 4: Simplify: $(\sqrt{x^3} \cdot \sqrt{y^5}) / \sqrt{x}$

Answer: $(\sqrt{x^3} \cdot \sqrt{y^5}) / \sqrt{x} = \sqrt{(x^3 \cdot y^5)} / \sqrt{x} = x^2 y^5$

Question 5: Simplify: $(\sqrt{a^4 b^6}) / \sqrt{a^2 b^3}$

Answer: $(\sqrt{a^4 b^6}) / \sqrt{a^2 b^3} = \sqrt{(a^4 b^6 / a^2 b^3)} = \sqrt{(a^2 b^3)} = a b^3$

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