

Name : _____

Score : _____ Date : _____

Multiplying Radical Expressions

Simplify

① $-\sqrt{6p} \cdot -\sqrt{6p^2}$

② $\sqrt{15s^2} \cdot \sqrt{10s^3}$

③ $\sqrt{20x} \cdot \sqrt{10x^3}$

④ $\sqrt{10k} \cdot -4\sqrt{6k^2}$

⑤ $-4\sqrt{28q} \cdot \sqrt{7q^3}$

⑥ $\sqrt{21b}(5 + \sqrt{7})$

⑦ $\sqrt{15a^2} \cdot \sqrt{5a^3}$

⑧ $5\sqrt{6x^3} \cdot \sqrt{6x^3}$

⑨ $-5\sqrt{10} (3p - \sqrt{10})$

⑩ $5\sqrt{6y^3} \cdot \sqrt{6y^3}$

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Multiplying Radical Expressions

Answers

① $-\sqrt{6p} \cdot -\sqrt{6p^2}$

$$\frac{6p\sqrt{p}}{\quad}$$

② $\sqrt{15s^2} \cdot \sqrt{10s^3}$

$$\frac{5s^2\sqrt{6s}}{\quad}$$

③ $\sqrt{20x} \cdot \sqrt{10x^3}$

$$\frac{10x^2\sqrt{2}}{\quad}$$

④ $\sqrt{10k} \cdot -4\sqrt{6k^2}$

$$\frac{-8k\sqrt{15k}}{\quad}$$

⑤ $-4\sqrt{28q} \cdot \sqrt{7q^3}$

$$\frac{-56q^2}{\quad}$$

⑥ $\sqrt{21b}(5 + \sqrt{7})$

$$\frac{5\sqrt{21b} + 7\sqrt{3b}}{\quad}$$

⑦ $\sqrt{15a^2} \cdot \sqrt{5a^3}$

$$\frac{5a^2\sqrt{3a}}{\quad}$$

⑧ $5\sqrt{6x^3} \cdot \sqrt{6x^3}$

$$\frac{30x^3}{\quad}$$

⑨ $-5\sqrt{10}(3p - \sqrt{10})$

$$\frac{-15p\sqrt{10} + 50}{\quad}$$

⑩ $5\sqrt{6y^3} \cdot \sqrt{6y^3}$

$$\frac{30y^3}{\quad}$$