

Name : \_\_\_\_\_

# Multiplying Radical Expressions Worksheet

Solve.

①  $(-4\sqrt{6} + 2)(\sqrt{6} - 5)$

\_\_\_\_\_

②  $-2\sqrt{12}(3 + \sqrt{12})$

\_\_\_\_\_

③  $(5 - 4\sqrt{5})(-2 + \sqrt{5})$

\_\_\_\_\_

④  $(5 + 4\sqrt{3})(3 + \sqrt{3})$

\_\_\_\_\_

⑤  $(1 - 4\sqrt{2})(4 + \sqrt{2})$

\_\_\_\_\_

⑥  $(2\sqrt{3} - 2)(\sqrt{3} - 1)$

\_\_\_\_\_

⑦  $(-4\sqrt{2x} + 2)(-2\sqrt{2} - 4)$

\_\_\_\_\_

⑧  $(\sqrt{5} - \sqrt{3})(\sqrt{5} + \sqrt{3})$

\_\_\_\_\_

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## Answers

$$\boxed{1} \quad (-4\sqrt{6} + 2)(\sqrt{6} - 5)$$

$$\underline{22\sqrt{6} - 34}$$

$$\boxed{2} \quad -2\sqrt{12}(3 + \sqrt{12})$$

$$\underline{-12\sqrt{3} - 24}$$

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

$$\underline{-30 + 13\sqrt{5}}$$

$$\boxed{4} \quad (5 + 4\sqrt{3})(3 + \sqrt{3})$$

$$\underline{27 + 17\sqrt{3}}$$

$$\boxed{5} \quad (1 - 4\sqrt{2})(4 + \sqrt{2})$$

$$\underline{-4 - 15\sqrt{2}}$$

$$\boxed{6} \quad (2\sqrt{3} - 2)(\sqrt{3} - 1)$$

$$\underline{8 - 4\sqrt{3}}$$

$$\boxed{7} \quad (-4\sqrt{2x} + 2)(-2\sqrt{2} - 4)$$

$$\underline{16\sqrt{x} + 16\sqrt{2x} - 4\sqrt{2} - 8}$$

$$\boxed{8} \quad (\sqrt{5} - \sqrt{3})(\sqrt{5} + \sqrt{3})$$

$$\underline{2}$$