

**Math 0406-Learning Outcome : Multiply two Radical Expressions**

1.  $\sqrt{29}\sqrt{29}$

2.  $\sqrt{6}\sqrt{2}$

3.  $\sqrt{2x^3y^5}\sqrt{8xy}$

4.  $3\sqrt{2} \cdot 2\sqrt{3}$

5.  $\sqrt{2}(\sqrt{2} + \sqrt{5})$

6.  $(3\sqrt{5} + \sqrt{3})(\sqrt{5} - 2\sqrt{3})$

7.  $(3 - \sqrt{3})(3 + \sqrt{3})$

8.  $\sqrt{2x^8y^5} \cdot \sqrt{14x^3y^5}$

9.  $(x - \sqrt{3})^2$

10.  $(3 - 2\sqrt{5})(4 + 6\sqrt{5})$

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**Answers:**

1. 29
2.  $2\sqrt{3}$
3.  $4x^2y^3$
4.  $6\sqrt{6}$
5.  $2 + \sqrt{10}$
6.  $9 - 5\sqrt{15}$
7. 6
8.  $2x^5y^5\sqrt{7x}$
9.  $x^2 - 2x\sqrt{3} + 3$
10.  $-48 + 10\sqrt{5}$