

1. 다음 중 옳은 것은?

①  $\sqrt{7} - \sqrt{3} - \sqrt{2} = \sqrt{2}$

②  $\sqrt{0.02} \times \sqrt{2} = 0.2$

③  $\sqrt{6} + \sqrt{4} = \sqrt{10}$

④  $3\sqrt{2} \times \sqrt{12} \div \frac{1}{\sqrt{3}} = 6\sqrt{2}$

⑤  $2\sqrt{2} + \sqrt{18} - \sqrt{50} = -2\sqrt{30}$

2.  $\frac{\sqrt{28}}{\sqrt{11}} \div \frac{\sqrt{7}}{\sqrt{33}}$  을 간단히 하였더니  $\sqrt{a}$  이었다. 이때 자연수  $a$  의 값을 구하여라.



답:  $a =$  \_\_\_\_\_

3. 다음 중 계산 결과가 옳지 않은 것은?

$$\textcircled{\text{㉠}} \quad \frac{\sqrt{10}}{\sqrt{2}} = \sqrt{5}$$

$$\textcircled{\text{㉡}} \quad -\frac{\sqrt{27}}{\sqrt{3}} = -\sqrt{3}$$

$$\textcircled{\text{㉢}} \quad \sqrt{168} \div \sqrt{6} = 2\sqrt{7}$$

$$\textcircled{\text{㉣}} \quad 2\sqrt{12} \div 3\sqrt{6} = \frac{4}{3}$$

$$\textcircled{\text{㉤}} \quad \frac{\sqrt{21}}{\sqrt{3}} \div \frac{\sqrt{7}}{\sqrt{12}} = 2\sqrt{3}$$

$$\textcircled{1} \quad \textcircled{\text{㉠}}, \textcircled{\text{㉢}}$$

$$\textcircled{2} \quad \textcircled{\text{㉡}}, \textcircled{\text{㉢}}$$

$$\textcircled{3} \quad \textcircled{\text{㉡}}, \textcircled{\text{㉣}}$$

$$\textcircled{4} \quad \textcircled{\text{㉢}}, \textcircled{\text{㉣}}$$

$$\textcircled{5} \quad \textcircled{\text{㉣}}, \textcircled{\text{㉤}}$$

4.  $\sqrt{12} \times \sqrt{18} \times \sqrt{75} = a\sqrt{2}$  일 때,  $a$  의 값은?

① 12

② 15

③ 30

④ 90

⑤ 120

5.  $2\sqrt{50} - \sqrt{98} + \sqrt{18}$  을 계산하면?

①  $-3\sqrt{2}$

②  $4\sqrt{2}$

③  $5\sqrt{2}$

④  $6\sqrt{2}$

⑤  $-7\sqrt{2}$