

1. $\frac{3}{\sqrt{2}} \div 2\sqrt{3} \times \sqrt{\frac{5}{2}}$ 를 간단히 하면?

① $\sqrt{2}$

② $\frac{\sqrt{5}}{2}$

③ $\sqrt{5}$

④ $\frac{\sqrt{15}}{4}$

⑤ $\sqrt{15}$

2. $\frac{4}{\sqrt{10}} \times \sqrt{30} \div \frac{\sqrt{12}}{\sqrt{5}}$ 를 간단히 한 것은?

① 2

② $2\sqrt{5}$

③ $3\sqrt{2}$

④ $3\sqrt{5}$

⑤ $4\sqrt{2}$

3. $2\sqrt{6} \div 3\sqrt{3} \times \frac{3}{\sqrt{2}}$ 을 간단히 하여라.



답: _____

4. $\sqrt{6} \div 3\sqrt{3} \times \frac{3}{\sqrt{12}} \div \frac{\sqrt{18}}{6} = a\sqrt{3}$ 일 때, a 의 값을 구하여라.



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5. $2\sqrt{133} \div \frac{1}{\sqrt{7}} \div \frac{1}{\sqrt{19}}$ 를 간단히 하여라.



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6. $\sqrt{\frac{6}{5}} \div \sqrt{2} \times \sqrt{\frac{20}{3}}$ 을 간단히 하여라.



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7. $\sqrt{6} \times \sqrt{3} \div \sqrt{12}$ 을 간단히 한 것은?

① $\sqrt{2}$

② $2\sqrt{2}$

③ $3\sqrt{2}$

④ $\frac{\sqrt{6}}{2}$

⑤ $2\sqrt{2}$

8. 식 $2(\sqrt{12} \times \sqrt{7}) \div (\sqrt{28} \times \sqrt{3})$ 을 간단히 하면?

① 1

② 2

③ 3

④ 4

⑤ 5

9. $\frac{6}{\sqrt{3}}(\sqrt{3} - \sqrt{2}) + \frac{\sqrt{8} - 2\sqrt{3}}{\sqrt{2}}$ 을 간단히 나타내면?

① $4 - \sqrt{6}$

② $4 - 3\sqrt{6}$

③ $8 - \sqrt{6}$

④ $8 - 3\sqrt{6}$

⑤ $8 - 5\sqrt{6}$

10. $(2\sqrt{54} - \sqrt{6}) \div \sqrt{3} - 3\sqrt{2}$ 를 간단히 하면?

① $\sqrt{2}$

② $\sqrt{3}$

③ $2\sqrt{2}$

④ $2\sqrt{3}$

⑤ $3\sqrt{3}$

11. $\sqrt{32} - 2\sqrt{24} - \sqrt{2}(1 + 2\sqrt{3})$ 을 간단히 하면?

① $3\sqrt{2} - 6\sqrt{6}$

② $3\sqrt{2} + 2\sqrt{6}$

③ $4\sqrt{2} - \sqrt{6}$

④ $4\sqrt{2} + 3\sqrt{6}$

⑤ $5\sqrt{2} + 3\sqrt{6}$

12. 다음 식을 간단히 하면?

$$\sqrt{2}\left(\sqrt{8} - \frac{3}{\sqrt{3}}\right) + (6 + 2\sqrt{3}) \div \sqrt{2}$$

① $-\sqrt{6}$

② $4 - 2\sqrt{2}$

③ 4

④ $4 - 3\sqrt{6}$

⑤ $4 + 3\sqrt{2}$

13. $2\left(\frac{\sqrt{6}-2\sqrt{2}}{\sqrt{3}}\right)-(4\sqrt{3}-6)\div\sqrt{6}$ 을 간단히 한 것으로 옳은 것은?

① $-\frac{\sqrt{6}}{3}$

② $-\frac{\sqrt{6}}{2}$

③ $\frac{\sqrt{6}}{3}$

④ $\frac{\sqrt{6}}{2}$

⑤ $2\sqrt{6}$

14. 다음 식을 간단히 하면?

$$\sqrt{12} + \sqrt{3} - \sqrt{48}$$

① $-\sqrt{3}$

② $\sqrt{3}$

③ $2\sqrt{3}$

④ $-2\sqrt{3}$

⑤ $7\sqrt{3}$

15. 다음을 간단히 하여라.

$$\frac{12}{\sqrt{2}} - \frac{4}{\sqrt{8}}$$



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16. $a = \frac{\sqrt{2} + \sqrt{5}}{\sqrt{2}}, b = \frac{-\sqrt{2} + \sqrt{5}}{\sqrt{2}}$ 일 때, $\frac{a+b}{a-b}$ 의 값은?

① $\sqrt{5}$

② $\frac{\sqrt{6}}{2}$

③ $\frac{\sqrt{7}}{2}$

④ $\frac{\sqrt{10}}{2}$

⑤ $\sqrt{6}$

17. $\frac{6}{\sqrt{8}}(\sqrt{3} - \sqrt{2}) + \frac{\sqrt{8} - 2\sqrt{3}}{\sqrt{2}}$ 을 간단히 하면?

① $8 - 3\sqrt{6}$

② $2\sqrt{3} - \sqrt{6}$

③ $\sqrt{2} - \sqrt{6}$

④ $5 - 2\sqrt{6}$

⑤ $\frac{\sqrt{6}}{2} - 1$

18. $\frac{6(\sqrt{2} + \sqrt{3})}{\sqrt{3}} - \frac{2\sqrt{27} - \sqrt{18}}{\sqrt{3}}$ 를 간단히 하면?

① $2 - 4\sqrt{6}$

② $3 - 3\sqrt{6}$

③ $2\sqrt{6} - 1$

④ $3\sqrt{6}$

⑤ $4\sqrt{6}$

19. $\sqrt{3}(\sqrt{10} - \sqrt{15}) \div \sqrt{5}$ 를 계산하면?

① $\sqrt{6} - 3$

② $6 - \sqrt{3}$

③ $\sqrt{6} - \sqrt{3}$

④ $\sqrt{6} + 3$

⑤ $\sqrt{6} + \sqrt{3}$

20. $\frac{\sqrt{3} + \sqrt{32}}{\sqrt{6}}$ 의 분모를 유리화하여 간단히 나타낸 것은?

① $\frac{\sqrt{2}}{4} + \frac{2\sqrt{3}}{3}$

② $\frac{\sqrt{2}}{2} + \frac{4\sqrt{3}}{3}$

③ $\frac{2\sqrt{2}}{3} + \frac{5\sqrt{3}}{3}$

④ $\frac{3\sqrt{2}}{2} + \frac{5\sqrt{3}}{2}$

⑤ $\frac{7\sqrt{2}}{2} + \frac{\sqrt{3}}{2}$

21. $\frac{\sqrt{8} - 2\sqrt{3}}{\sqrt{2}}$ 을 간단히 하면?

① $2 - \sqrt{3}$

② $2 + \sqrt{3}$

③ $2 - \sqrt{6}$

④ $2 + \sqrt{6}$

⑤ $2 + 2\sqrt{2}$

22. 다음 식이 성립할 때, $a + b$ 의 값을 구하면? (단, a, b 는 유리수)

$$\frac{4}{\sqrt{2}} - \frac{6}{\sqrt{3}} - \sqrt{3}(6 + \sqrt{\frac{2}{3}}) = a\sqrt{2} + b\sqrt{3}$$

① -9

② -7

③ -4

④ 4

⑤ 7

23. $\sqrt{3}(\sqrt{2} - \sqrt{3}) - \frac{2\sqrt{3} - \sqrt{8}}{\sqrt{2}}$ 을 계산하면?

① $\frac{-7 - \sqrt{6}}{2}$

② $\frac{-1 - \sqrt{6}}{2}$

③ -1

④ $\frac{1 - \sqrt{6}}{2}$

⑤ $\frac{7 - \sqrt{6}}{2}$

24. $\frac{6}{\sqrt{3}}(\sqrt{3} - \sqrt{2}) + \frac{\sqrt{8} - 2\sqrt{3}}{\sqrt{2}}$ 을 간단히 나타내면?

① $4 - \sqrt{6}$

② $4 - 3\sqrt{6}$

③ $8 - \sqrt{6}$

④ $8 - 3\sqrt{6}$

⑤ $8 - 5\sqrt{6}$

25. $5\sqrt{2} \div 3\sqrt{5} \times 6\sqrt{10}$ 을 간단히 하여라.



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26. $2\sqrt{3} \div 3\sqrt{2} \times \sqrt{27}$ 을 간단히 하여라.



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