

1. $6\sqrt{6} - 4\sqrt{3} + 2\sqrt{6} - 3\sqrt{3}$ 을 간단히 하면?

① $2\sqrt{6} + 1\sqrt{3}$

② $3\sqrt{6} - 2\sqrt{3}$

③ $7\sqrt{6} + 8\sqrt{3}$

④ $8\sqrt{6} - 7\sqrt{3}$

⑤ $4\sqrt{6} + 2\sqrt{3}$

해설

$$\begin{aligned} & 6\sqrt{6} - 4\sqrt{3} - 3\sqrt{3} + 2\sqrt{6} \\ &= (6\sqrt{6} + 2\sqrt{6}) - (4\sqrt{3} + 3\sqrt{3}) \\ &= 8\sqrt{6} - 7\sqrt{3} \end{aligned}$$

2. $\frac{\sqrt{3}}{3} + \frac{\sqrt{5}}{6} - \frac{\sqrt{3}}{4} - \frac{\sqrt{5}}{2}$ 을 간단히 나타내면?

- ① $-\frac{\sqrt{3}}{12} - \frac{\sqrt{5}}{12}$ ② $\frac{\sqrt{3}}{12} + \frac{\sqrt{5}}{3}$ ③ $\frac{\sqrt{3}}{12} - \frac{\sqrt{5}}{3}$
④ $\frac{\sqrt{3}}{6} - \frac{\sqrt{5}}{6}$ ⑤ $\frac{\sqrt{3}}{3} + \frac{\sqrt{5}}{3}$

해설

$$\begin{aligned} & \frac{\sqrt{3}}{3} + \frac{\sqrt{5}}{6} - \frac{\sqrt{3}}{4} - \frac{\sqrt{5}}{2} \\ &= \frac{4\sqrt{3} - 3\sqrt{3}}{12} + \frac{\sqrt{5} - 3\sqrt{5}}{6} \\ &= \frac{\sqrt{3}}{12} - \frac{\sqrt{5}}{3} \end{aligned}$$

3. $\sqrt{48} - 4\sqrt{32} + 3\sqrt{12} + \sqrt{50}$ 을 $a\sqrt{3} + b\sqrt{2}$ 의 꼴로 고칠 때, $a + b$ 의 값은?

① -21

② -1

③ 4

④ 9

⑤ 21

해설

$$\begin{aligned} & \sqrt{48} - 4\sqrt{32} + 3\sqrt{12} + \sqrt{50} \\ &= 4\sqrt{3} - 16\sqrt{2} + 6\sqrt{3} + 5\sqrt{2} \\ &= 10\sqrt{3} - 11\sqrt{2} \\ &a = 10, b = -11 \\ &\therefore a + b = -1 \end{aligned}$$

4. 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 $7\sqrt{3}$

해설

$$\begin{aligned}\sqrt{12} + \sqrt{3} - \sqrt{48} &= 2\sqrt{3} + \sqrt{3} - 4\sqrt{3} \\ &= -\sqrt{3}\end{aligned}$$

5. $\sqrt{48}-4\sqrt{32}+3\sqrt{12}+\sqrt{50}$ 을 $a\sqrt{3}+b\sqrt{2}$ 의 꼴로 고칠 때, $a+b$ 의 값은?

① -21 ② -1 ③ 4 ④ 9 ⑤ 21

해설

$$\begin{aligned} & \sqrt{48}-4\sqrt{32}+3\sqrt{12}+\sqrt{50} \\ &= 4\sqrt{3}-16\sqrt{2}+6\sqrt{3}+5\sqrt{2} \\ &= 10\sqrt{3}-11\sqrt{2} \text{에서} \\ & a=10, b=-11 \\ & \therefore a+b=-1 \end{aligned}$$

6. $-3\sqrt{2} - \frac{11}{4}\sqrt{5} + 5\sqrt{2} + \frac{3}{4}\sqrt{5} = a\sqrt{2} + b\sqrt{5}$ 가 성립할 때, $2a + b$ 의 값은? (단, a, b 는 유리수)

① -4

② -2

③ 0

④ 2

⑤ 4

해설

$$\begin{aligned} & -3\sqrt{2} - \frac{11}{4}\sqrt{5} + 5\sqrt{2} + \frac{3}{4}\sqrt{5} \\ &= (-3 + 5)\sqrt{2} + \frac{-11 + 3}{4}\sqrt{5} \\ &= 2\sqrt{2} - 2\sqrt{5} \\ & a = 2, b = -2 \text{ 이므로 } 2a + b = 2 \end{aligned}$$

7. $\sqrt{(3-2\sqrt{2})^2} - \sqrt{(2\sqrt{2}-3)^2}$ 을 간단히 하면?

① $6-4\sqrt{2}$

② $-4\sqrt{2}$

③ 6

④ 0

⑤ $-6+4\sqrt{2}$

해설

$3 > 2\sqrt{2}$ 이므로

$$\begin{aligned} & \sqrt{(3-2\sqrt{2})^2} - \sqrt{(2\sqrt{2}-3)^2} \\ &= |3-2\sqrt{2}| - |2\sqrt{2}-3| \\ &= 3-2\sqrt{2} + 2\sqrt{2}-3 \\ &= 0 \end{aligned}$$

8. $\sqrt{(5-2\sqrt{5})^2} + \sqrt{(2\sqrt{5}-5)^2}$ 을 간단히 하면 $a+b\sqrt{5}$ 이다. 유리수 a 와 b 의 합은?

① -4 ② 0 ③ 3 ④ 6 ⑤ 11

해설

$5 > 2\sqrt{5}$ 이므로

$$\sqrt{(5-2\sqrt{5})^2} + \sqrt{(2\sqrt{5}-5)^2}$$

$$= |5-2\sqrt{5}| + |2\sqrt{5}-5|$$

$$= 5-2\sqrt{5} - (2\sqrt{5}-5)$$

$$= 5-2\sqrt{5} - 2\sqrt{5} + 5$$

$$= 10-4\sqrt{5}$$

$$\therefore a+b = 10-4 = 6$$

9. $f(x) = \sqrt{x+1} - \sqrt{x}$ 이고, $S(x) = f(1) + f(2) + f(3) + \cdots + f(x)$ 이라고 한다. 100 이하의 자연수 n 에 대하여 $S(n)$ 의 값이 자연수가 되는 n 을 모두 고르면?

- ① 8 ② 15 ③ 35 ④ 50 ⑤ 99

해설

$$S(n) = (\sqrt{2} - 1) + (\sqrt{3} - \sqrt{2}) + (\sqrt{4} - \sqrt{3}) + \dots + (\sqrt{n+1} - \sqrt{n}) = \sqrt{n+1} - 1$$

① $n = 8$ 일 때, $S(n) = 3 - 1 = 2$

② $n = 15$ 일 때, $S(n) = 4 - 1 = 3$

③ $n = 35$ 일 때, $S(n) = 6 - 1 = 5$

④ $n = 50$ 일 때, $S(n) = \sqrt{51} - 1$

⑤ $n = 99$ 일 때, $S(n) = 10 - 1 = 9$

따라서 ①, ②, ③, ⑤가 답이다.

10. $\sqrt{18} + \sqrt{48} - 2\sqrt{27} + 3\sqrt{50}$ 을 간단히 하면?

① $14\sqrt{2} + 4\sqrt{3}$

② $14\sqrt{2} - 4\sqrt{3}$

③ $18\sqrt{2} - 2\sqrt{3}$

④ $18\sqrt{2} + 2\sqrt{3}$

⑤ $24\sqrt{2} + 4\sqrt{3}$

해설

$$\begin{aligned} & \sqrt{18} + \sqrt{48} - 2\sqrt{27} + 3\sqrt{50} \\ &= 3\sqrt{2} + 4\sqrt{3} - 6\sqrt{3} + 15\sqrt{2} \\ &= (3\sqrt{2} + 15\sqrt{2}) + (4\sqrt{3} - 6\sqrt{3}) \\ &= 18\sqrt{2} - 2\sqrt{3} \end{aligned}$$

11. $\sqrt{108} - \sqrt{48} - \sqrt{27} + \sqrt{24}$ 를 $a\sqrt{3} + b\sqrt{6}$ 의 꼴로 고칠 때, $a - b$ 의 값은?

① -3 ② -1 ③ 0 ④ 1 ⑤ 3

해설

$$\begin{aligned} & \sqrt{108} - \sqrt{48} - \sqrt{27} + \sqrt{24} \\ &= 6\sqrt{3} - 4\sqrt{3} - 3\sqrt{3} + 2\sqrt{6} \\ &= -\sqrt{3} + 2\sqrt{6} \\ \therefore a - b &= -1 - 2 = -3 \end{aligned}$$

12. $\sqrt{192} - \sqrt{54} - \sqrt{108} + \sqrt{24}$ 를 $a\sqrt{3} + b\sqrt{6}$ 의 꼴로 고칠 때, $a - b$ 의 값을 구하면?

① 1

② 2

③ 3

④ 4

⑤ 5

해설

$$\begin{aligned} & \sqrt{192} - \sqrt{54} - \sqrt{108} + \sqrt{24} \\ &= 8\sqrt{3} - 3\sqrt{6} - 6\sqrt{3} + 2\sqrt{6} \\ &= 2\sqrt{3} - \sqrt{6} \\ \therefore a &= 2, b = -1 \\ \therefore a - b &= 2 - (-1) = 3 \end{aligned}$$

13. $a = \sqrt{2}$, $b = \sqrt{3}$ 일 때, $\sqrt{216} + \frac{\sqrt{24}}{\sqrt{2}}$ 를 a , b 로 나타내면?

① $6a + 2b$

② $6a + 2ab$

③ $6ab + 2b$

④ $2ab + 6b$

⑤ $2a + 6ab$

해설

$$\sqrt{216} = \sqrt{2^3 \times 3^3} = 2\sqrt{2} \times 3\sqrt{3} = 2a \times 3b = 6ab$$

$$\frac{\sqrt{24}}{\sqrt{2}} = \frac{\sqrt{24} \times \sqrt{2}}{\sqrt{2} \times \sqrt{2}} = \frac{\sqrt{48}}{2} = \frac{4\sqrt{3}}{2} = 2\sqrt{3} = 2b$$

$$\therefore \sqrt{216} + \left(\frac{\sqrt{24}}{\sqrt{2}}\right) = 6ab + 2b$$

14. 다음 보기 중에서 옳은 것을 모두 고르면?

보기

- ㉠ $\frac{\sqrt{6}}{3} + \frac{\sqrt{6}}{2} - 2\sqrt{6} = -\frac{7\sqrt{6}}{6}$
㉡ $\frac{3\sqrt{2}}{2} + \frac{5\sqrt{2}}{2} - 2\sqrt{2} - 2\sqrt{3} = 2\sqrt{2} - \sqrt{3}$
㉢ $\frac{3\sqrt{2}}{4} - 3\sqrt{2} + \sqrt{32} = \frac{7\sqrt{2}}{4}$
㉤ $\sqrt{192} - \sqrt{54} - \sqrt{108} + \sqrt{24} = 2\sqrt{3} - \sqrt{6}$

① ㉠, ㉡

② ㉠, ㉡, ㉢

③ ㉠, ㉢

④ ㉠, ㉢, ㉤

⑤ ㉠, ㉡, ㉢, ㉤

해설

- ㉠ $\frac{\sqrt{6}}{3} + \frac{\sqrt{6}}{2} - 2\sqrt{6} = \frac{5\sqrt{6}}{6} - 2\sqrt{6} = -\frac{7\sqrt{6}}{6}$
㉡ $\frac{3\sqrt{2}}{2} + \frac{5\sqrt{2}}{2} - 2\sqrt{2} - 2\sqrt{3}$
 $= 4\sqrt{2} - 2\sqrt{2} - 2\sqrt{3}$
 $= 2\sqrt{2} - 2\sqrt{3}$
㉢ $\frac{3\sqrt{2}}{4} - 3\sqrt{2} + \sqrt{32} = \frac{3\sqrt{2}}{4} + \sqrt{2} = \frac{7\sqrt{2}}{4}$
㉤ $\sqrt{192} - \sqrt{54} - \sqrt{108} + \sqrt{24}$
 $= 8\sqrt{3} - 3\sqrt{6} - 6\sqrt{3} + 2\sqrt{6}$
 $= 2\sqrt{3} - \sqrt{6}$

15. 다음 보기 중에서 옳은 것을 모두 고르면?

보기

- ㉠ $\sqrt{10} - \sqrt{45} + \sqrt{40} = -\sqrt{5} + 3\sqrt{10}$
- ㉡ $\sqrt{24} + \sqrt{54} + \sqrt{27} - \sqrt{12} = 5\sqrt{6} + \sqrt{3}$
- ㉢ $\sqrt{18} - \sqrt{8} + \sqrt{48} - \sqrt{12} = \sqrt{2} + 2\sqrt{3}$
- ㉤ $\frac{3}{\sqrt{3}} - \frac{28}{\sqrt{28}} = \sqrt{3} - \sqrt{7}$
- ㉥ $\sqrt{80} - \sqrt{20} - \frac{10}{\sqrt{5}} = \sqrt{5}$

① ㉠, ㉡ ② ㉠, ㉢ ③ ㉡, ㉢ ④ ㉡, ㉤ ⑤ ㉢, ㉤

해설

- ㉠ $\sqrt{10} - \sqrt{45} + \sqrt{40}$
 $= \sqrt{10} - 3\sqrt{5} + 2\sqrt{10}$
 $= 3\sqrt{10} - 3\sqrt{5}$
- ㉡ $\sqrt{24} + \sqrt{54} + \sqrt{27} - \sqrt{12}$
 $= 2\sqrt{6} + 3\sqrt{6} + 3\sqrt{3} - 2\sqrt{3}$
 $= 5\sqrt{6} + \sqrt{3}$
- ㉢ $\sqrt{18} - \sqrt{8} + \sqrt{48} - \sqrt{12}$
 $= 3\sqrt{2} - 2\sqrt{2} + 4\sqrt{3} - 2\sqrt{3}$
 $= \sqrt{2} + 2\sqrt{3}$
- ㉤ $\frac{3}{\sqrt{3}} - \frac{28}{\sqrt{28}}$
 $= \sqrt{3} - \sqrt{28}$
 $= \sqrt{3} - 2\sqrt{7}$
- ㉥ $\sqrt{80} - \sqrt{20} - \frac{10}{\sqrt{5}}$
 $= 4\sqrt{5} - 2\sqrt{5} - 2\sqrt{5}$
 $= 0$

16. $\sqrt{32} + \frac{8}{\sqrt{2}} - \sqrt{50} = a\sqrt{2}$, $\sqrt{0.2} \times \sqrt{\frac{4}{5}} \times \sqrt{125} = b\sqrt{5}$ 일 때, $a - b$ 의 값은?

① -2

② -1

③ 1

④ 2

⑤ 3

해설

$$4\sqrt{2} + 4\sqrt{2} - 5\sqrt{2} = 3\sqrt{2} \quad \therefore a = 3$$

$$\begin{aligned}\sqrt{\frac{20}{100}} \times \frac{2\sqrt{5}}{5} \times 5\sqrt{5} &= \frac{\sqrt{5}}{5} \times \frac{2\sqrt{5}}{5} \times 5\sqrt{5} \\ &= 2\sqrt{5}\end{aligned}$$

$$\therefore b = 2$$

$$\therefore a - b = 1$$

17. $\sqrt{20} + \sqrt{0.2} + \frac{4}{\sqrt{5}} = a\sqrt{5}$, $\sqrt{2.5} \times \sqrt{\frac{6}{5}} \times \sqrt{18} = b\sqrt{6}$ 일 때, $a \times b$ 의 값은?

① 4

② 9

③ 16

④ 25

⑤ 36

해설

$$2\sqrt{5} + \frac{\sqrt{5}}{5} + \frac{4\sqrt{5}}{5} = \frac{10\sqrt{5} + \sqrt{5} + 4\sqrt{5}}{5} = \frac{15\sqrt{5}}{5} = 3\sqrt{5}$$

$$\therefore a = 3$$

$$\sqrt{2.5} \times \sqrt{\frac{6}{5}} \times \sqrt{18} = \sqrt{\frac{25}{10} \times \frac{6}{5} \times 18} = 3\sqrt{6}$$

$$\therefore b = 3$$

$$\therefore a \times b = 9$$

18. $a = \frac{\sqrt{2} + \sqrt{5}}{\sqrt{2}}, b = \frac{-\sqrt{2} + \sqrt{5}}{\sqrt{2}}$ 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 $\sqrt{6}$

해설

$$a = 1 + \frac{\sqrt{10}}{2}, b = -1 + \frac{\sqrt{10}}{2} \text{ 이므로}$$

$$a + b = \sqrt{10}, a - b = 2 \text{ 이다.}$$

$$\therefore \frac{a+b}{a-b} = \frac{\sqrt{10}}{2}$$

19. $2\left(\frac{\sqrt{6}-2\sqrt{2}}{\sqrt{3}}\right)-(4\sqrt{3}-6)\div\sqrt{6}$ 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 $2\sqrt{6}$

해설

$$\begin{aligned}& 2\left(\frac{\sqrt{6}-2\sqrt{2}}{\sqrt{3}}\right)-(4\sqrt{3}-6)\div\sqrt{6} \\&= 2\times\frac{3\sqrt{2}-2\sqrt{6}}{3}-\frac{4\sqrt{3}-6}{\sqrt{6}} \\&= \frac{6\sqrt{2}-4\sqrt{6}}{3}-\frac{12\sqrt{2}-6\sqrt{6}}{6} \\&= 2\sqrt{2}-\frac{4\sqrt{6}}{3}-2\sqrt{2}+\sqrt{6} \\&= -\frac{\sqrt{6}}{3}\end{aligned}$$

20. 다음 식을 간단히 하면?

$$\sqrt{2}\left(\frac{2}{\sqrt{6}}-\frac{10}{\sqrt{12}}\right)+\sqrt{3}\left(\frac{6}{\sqrt{18}}-3\right)$$

- ① $\frac{7\sqrt{3}+2\sqrt{6}}{3}$

② $\frac{7\sqrt{3}-2\sqrt{6}}{3}$

③ $\frac{-7\sqrt{3}+2\sqrt{6}}{3}$
- ④ $\frac{-7\sqrt{3}-2\sqrt{6}}{3}$

⑤ $\frac{7\sqrt{3}-\sqrt{6}}{3}$

해설

$$\begin{aligned}&\sqrt{2}\left(\frac{2}{\sqrt{6}}-\frac{10}{\sqrt{12}}\right)+\sqrt{3}\left(\frac{6}{\sqrt{18}}-3\right)\\&=\frac{2}{\sqrt{3}}-\frac{10}{\sqrt{6}}+\frac{6}{\sqrt{6}}-3\sqrt{3}\\&=\frac{2\sqrt{3}}{3}-\frac{2\sqrt{6}}{3}-3\sqrt{3}=-\frac{7\sqrt{3}}{3}-\frac{2\sqrt{6}}{3}\end{aligned}$$

21. $\frac{1}{\sqrt{2}} - \frac{3}{\sqrt{32}}$ 을 계산하면?

① $\frac{1}{2}$

② $-\frac{1}{2}$

③ $\frac{\sqrt{2}}{8}$

④ $-\frac{\sqrt{3}}{8}$

⑤ $\frac{\sqrt{3}}{8}$

해설

$$\begin{aligned}\frac{1}{\sqrt{2}} - \frac{3}{4\sqrt{2}} &= \frac{\sqrt{2}}{\sqrt{2}\sqrt{2}} - \frac{3\sqrt{2}}{4\sqrt{2}\sqrt{2}} \\ &= \frac{\sqrt{2}}{\sqrt{2}} - \frac{3\sqrt{2}}{4\sqrt{2}} \\ &= \frac{2}{4\sqrt{2}} - \frac{3\sqrt{2}}{8} \\ &= \frac{\sqrt{2}}{8}\end{aligned}$$

22. $A = \frac{2}{\sqrt{3}} + \frac{4\sqrt{2}}{3}$, $B = \frac{2}{\sqrt{3}} + \frac{\sqrt{2}}{4}$ 일 때, $\sqrt{3}A + 4\sqrt{2}B$ 의 값을 구하면?

① $2 + 4\sqrt{6}$

② $4 + 4\sqrt{6}$

③ $4 + 6\sqrt{6}$

④ $6 + 6\sqrt{6}$

⑤ $6 + 8\sqrt{6}$

해설

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

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

$$\begin{aligned} & \sqrt{3}A + 4\sqrt{2}B \\ &= \sqrt{3} \left(\frac{4\sqrt{2}}{3} + \frac{2\sqrt{3}}{3} \right) + 4\sqrt{2} \left(\frac{2\sqrt{3}}{3} + \frac{\sqrt{2}}{4} \right) \\ &= \frac{4\sqrt{6}}{3} + \frac{6}{3} + \frac{8\sqrt{6}}{3} + 2 \\ &= \frac{12\sqrt{6}}{3} + 4 \\ &= 4 + 4\sqrt{6} \end{aligned}$$

23. $a > 0, b > 0, \sqrt{ab} = 2$ 일 때, $a\sqrt{\frac{2b}{a}} + b\sqrt{\frac{a}{b}}$ 를 구하면?

① 2

② $2 + \sqrt{2}$

③ $2 + 2\sqrt{2}$

④ $2 + 3\sqrt{2}$

⑤ $2 + 4\sqrt{2}$

해설

$$\begin{aligned}(\text{준식}) &= \sqrt{a^2 \times \frac{2b}{a}} + \sqrt{b^2 \times \frac{a}{b}} \\&= \sqrt{2ab} + \sqrt{ab} \\&= 2\sqrt{2} + 2\end{aligned}$$

24. $a = (\sqrt{2} + \sqrt{3})$, $b = (\sqrt{2} - \sqrt{3})$ 일 때, $a^2 - b^2$ 의 값은?

- ① $2\sqrt{3}$ ② $4\sqrt{6}$ ③ $4\sqrt{3}$ ④ $2\sqrt{6}$ ⑤ 10

해설

$$\begin{aligned} a^2 - b^2 &= (\sqrt{2} + \sqrt{3})^2 - (\sqrt{2} - \sqrt{3})^2 \\ &= (\sqrt{2} + \sqrt{3})(\sqrt{2} + \sqrt{3}) - (\sqrt{2} - \sqrt{3})(\sqrt{2} - \sqrt{3}) \\ &= (2 + \sqrt{6} + \sqrt{6} + 3) - (2 - \sqrt{6} - \sqrt{6} + 3) \\ &= 4\sqrt{6} \end{aligned}$$

25. 연립방정식 $\begin{cases} \sqrt{2}x + \sqrt{3}y = 5\sqrt{6} \\ \sqrt{3}x - 2\sqrt{2}y = -2 \end{cases}$ 를 풀면?

① $x = \frac{17}{7}\sqrt{3}, y = \frac{18}{7}\sqrt{2}$

③ $x = \frac{17}{7}\sqrt{2}, y = \frac{18}{7}\sqrt{3}$

⑤ $x = \frac{17}{7}\sqrt{3}, y = \frac{18}{7}\sqrt{3}$

② $x = \frac{18}{7}\sqrt{2}, y = \frac{17}{7}\sqrt{3}$

④ $x = \frac{18}{7}\sqrt{3}, y = \frac{17}{7}\sqrt{2}$

해설

$$\begin{cases} \sqrt{2}x + \sqrt{3}y = 5\sqrt{6} \cdots \textcircled{1} \\ \sqrt{3}x - 2\sqrt{2}y = -2 \cdots \textcircled{2} \end{cases}$$

$\textcircled{1} \times 2\sqrt{2} + \textcircled{2} \times \sqrt{3}$ 을 하면

$$\begin{array}{r} 4x + 2\sqrt{6}y = 20\sqrt{3} \\ +) 3x - 2\sqrt{6}y = -2\sqrt{3} \\ \hline 7x = 18\sqrt{3} \end{array}$$

$$\therefore x = \frac{18}{7}\sqrt{3}$$

$\textcircled{2}$ 에 $x = \frac{18}{7}\sqrt{3}$ 을 대입하면

$$\frac{54}{7} - 2\sqrt{2}y = -2, \quad \sqrt{2}y = \frac{34}{7}$$

$$y = \frac{17}{7}\sqrt{2}$$