

# 反射テスト 平方根 $\sqrt{\quad}$ の加減 基礎 01

1. 次の計算をせよ。(S級 20 秒, A級 30 秒, B級 45 秒, C級 1 分)

(1)  $\sqrt{6} + \sqrt{6}$

(2)  $\sqrt{3} - \sqrt{3}$

(3)  $\sqrt{2} + \sqrt{2} + \sqrt{2}$

(4)  $-2\sqrt{5} - 5\sqrt{5}$

(5)  $3\sqrt{3} - 2\sqrt{3}$

(6)  $5\sqrt{7} + 3\sqrt{7}$

(7)  $2\sqrt{11} - (-\sqrt{11})$

(8)  $4\sqrt{15} - (-3\sqrt{15})$

(9)  $15\sqrt{2} - 13\sqrt{2} + 8\sqrt{2}$

(10)  $2\sqrt{11} - (-\sqrt{11}) - 3\sqrt{11}$

2. 次の計算をせよ。(S級 20 秒, A級 30 秒, B級 45 秒, C級 1 分)

(1)  $\sqrt{5} + \sqrt{5}$

(2)  $\sqrt{21} - \sqrt{21}$

(3)  $\sqrt{3} + \sqrt{3} + \sqrt{3}$

(4)  $-4\sqrt{5} - 5\sqrt{5}$

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

(6)  $5\sqrt{7} + 5\sqrt{7}$

(7)  $3\sqrt{11} - (-\sqrt{11})$

(8)  $2\sqrt{15} - (-4\sqrt{15})$

(9)  $11\sqrt{2} - 13\sqrt{2} + 9\sqrt{2}$

(10)  $4\sqrt{11} - (-2\sqrt{11}) - 6\sqrt{11}$

# 反射テスト 平方根 $\sqrt{\quad}$ の加減 基礎 01 解答解説

1. 次の計算をせよ。(S級 20 秒, A級 30 秒, B級 45 秒, C級 1 分)

★  $\sqrt{\quad}$  の計算は文字式と同じ.

例  $3\sqrt{2} + 4\sqrt{2} = 7\sqrt{2}$

$$\begin{aligned} (1) \quad & \sqrt{6} + \sqrt{6} \\ & = 2\sqrt{6} \end{aligned}$$

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

$$\begin{aligned} (3) \quad & \sqrt{2} + \sqrt{2} + \sqrt{2} \\ & = 3\sqrt{2} \end{aligned}$$

$$\begin{aligned} (4) \quad & -2\sqrt{5} - 5\sqrt{5} \\ & = -7\sqrt{5} \end{aligned}$$

$$\begin{aligned} (5) \quad & 3\sqrt{3} - 2\sqrt{3} \\ & = \sqrt{3} \end{aligned}$$

$$\begin{aligned} (6) \quad & 5\sqrt{7} + 3\sqrt{7} \\ & = 8\sqrt{7} \end{aligned}$$

$$\begin{aligned} (7) \quad & 2\sqrt{11} - (-\sqrt{11}) \\ & = 3\sqrt{11} \end{aligned}$$

$$\begin{aligned} (8) \quad & 4\sqrt{15} - (-3\sqrt{15}) \\ & = 7\sqrt{15} \end{aligned}$$

$$\begin{aligned} (9) \quad & 15\sqrt{2} - 13\sqrt{2} + 8\sqrt{2} \\ & = 10\sqrt{2} \end{aligned}$$

$$\begin{aligned} (10) \quad & 2\sqrt{11} - (-\sqrt{11}) - 3\sqrt{11} \\ & = 0 \end{aligned}$$

2. 次の計算をせよ。(S級 20 秒, A級 30 秒, B級 45 秒, C級 1 分)

$$\begin{aligned} (1) \quad & \sqrt{5} + \sqrt{5} \\ & = 2\sqrt{5} \end{aligned}$$

$$\begin{aligned} (2) \quad & \sqrt{21} - \sqrt{21} \\ & = 0 \end{aligned}$$

$$\begin{aligned} (3) \quad & \sqrt{3} + \sqrt{3} + \sqrt{3} \\ & = 3\sqrt{3} \end{aligned}$$

$$\begin{aligned} (4) \quad & -4\sqrt{5} - 5\sqrt{5} \\ & = -9\sqrt{5} \end{aligned}$$

$$\begin{aligned} (5) \quad & 3\sqrt{3} - 5\sqrt{3} \\ & = -2\sqrt{3} \end{aligned}$$

$$\begin{aligned} (6) \quad & 5\sqrt{7} + 5\sqrt{7} \\ & = 10\sqrt{7} \end{aligned}$$

$$\begin{aligned} (7) \quad & 3\sqrt{11} - (-\sqrt{11}) \\ & = 4\sqrt{11} \end{aligned}$$

$$\begin{aligned} (8) \quad & 2\sqrt{15} - (-4\sqrt{15}) \\ & = 6\sqrt{15} \end{aligned}$$

$$\begin{aligned} (9) \quad & 11\sqrt{2} - 13\sqrt{2} + 9\sqrt{2} \\ & = 7\sqrt{2} \end{aligned}$$

$$\begin{aligned} (10) \quad & 4\sqrt{11} - (-2\sqrt{11}) - 6\sqrt{11} \\ & = 0 \end{aligned}$$