平方根＜(ａ＋ｂ)(ａ-ｂ)/(ａ±ｂ)＾２＞No.1の解答

1. 次の式を簡単にせよ。

(1) $\left(2\sqrt{3}+\sqrt{2}\right)^2$

答．$14+4\sqrt{6}$

(2) $\left(3\sqrt{2}+3\right)^2$

答．$27+18\sqrt{2}$

(3) $\left(2+\sqrt{2}\right)^2$

答．$6+4\sqrt{2}$

(4) $\left(2+\sqrt{3}\right)\left(2-\sqrt{3}\right)$

答．1

(5) $\left(\sqrt{2}+2\right)^2$

答．$6+4\sqrt{2}$

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

答．25

(7) $\left(3-\sqrt{2}\right)^2$

答．$11-6\sqrt{2}$

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

答．-1

(9) $\left(\sqrt{3}-\sqrt{5}\right)\left(\sqrt{3}+\sqrt{5}\right)$

答．-2

(10) $\left(\sqrt{12}-\sqrt{5}\right)\left(\sqrt{12}+\sqrt{5}\right)$

答．7

平方根＜(ａ＋ｂ)(ａ-ｂ)/(ａ±ｂ)＾２＞No.2の解答

1. 次の式を簡単にせよ。

(1) $\left(\sqrt{5}-3\right)\left(\sqrt{5}+3\right)$

答．-4

(2) $\left(3-\sqrt{2}\right)\left(3+\sqrt{2}\right)$

答．7

(3) $\left(1-2\sqrt{3}\right)\left(1+2\sqrt{3}\right)$

答．-11

(4) $\left(\sqrt{12}-\sqrt{45}\right)\left(\sqrt{12}+\sqrt{45}\right)$

答．-33

(5) $\left(\sqrt{12}+\sqrt{2}\right)^2$

答．$14+4\sqrt{6}$

(6) $\left(\sqrt{27}+3\sqrt{2}\right)\left(\sqrt{27}-3\sqrt{2}\right)$

答．9

(7) $\left(3\sqrt{5}-\sqrt{2}\right)\left(3\sqrt{5}+\sqrt{2}\right)$

答．43

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

答．-1

(9) $\left(\sqrt{8}+\sqrt{27}\right)^2$

答．$35+12\sqrt{6}$

(10) $\left(\sqrt{5}-\sqrt{3}\right)\left(\sqrt{5}+\sqrt{3}\right)$

答．2

平方根＜(ａ＋ｂ)(ａ-ｂ)/(ａ±ｂ)＾２＞No.3の解答

1. 次の式を簡単にせよ。

(1) $\left(1+2\sqrt{3}\right)\left(1-2\sqrt{3}\right)$

答. -11

(2) $\left(\sqrt{2}+\sqrt{3}\right)\left(\sqrt{2}-\sqrt{3}\right)$

答. -1

(3) $\left(\sqrt{5}+\sqrt{3}\right)^2$

答. $8+2\sqrt{15}$

(4) $\left(\sqrt{2}-\sqrt{3}\right)^2$

答. $5-2\sqrt{6}$

(5) $\left(\sqrt{2}+\sqrt{5}\right)\left(\sqrt{2}-\sqrt{5}\right)$

答. -3

(6) $\left(1-\sqrt{2}\right)^2$

答. $3-2\sqrt{2}$

(7) $\left(\sqrt{2}-2\right)\left(\sqrt{2}+2\right)$

答. -2

(8) $\left(2\sqrt{2}-1\right)^2$

答. $9-4\sqrt{2}$

(9) $\left(\sqrt{27}-\sqrt{5}\right)^2$

答. $32-6\sqrt{15}$

(10) $\left(\sqrt{3}+\sqrt{2}\right)^2$

答. $5+2\sqrt{6}$

平方根＜(ａ＋ｂ)(ａ-ｂ)/(ａ±ｂ)＾２＞No.4の解答

1. 次の式を簡単にせよ。

(1) $\left(3\sqrt{3}-1\right)\left(3\sqrt{3}+1\right)$

答. 26

(2) $\left(2\sqrt{2}+2\right)^2$

答. $12+8\sqrt{2}$

(3) $\left(3+2\sqrt{2}\right)\left(3-2\sqrt{2}\right)$

答. 1

(4) $\left(\sqrt{18}-2\sqrt{3}\right)^2$

答. $30-12\sqrt{6}$

(5) $\left(\sqrt{5}+\sqrt{3}\right)\left(\sqrt{5}-\sqrt{3}\right)$

答. 2

(6) $\left(\sqrt{2}+1\right)^2$

答. $3+2\sqrt{2}$

(7) $\left(3+2\sqrt{2}\right)^2$

答. $17+12\sqrt{2}$

(8) $\left(\sqrt{2}-3\right)^2$

答. $11-6\sqrt{2}$

(9) $\left(1+3\sqrt{2}\right)\left(1-3\sqrt{2}\right)$

答. -17

(10) $\left(1-\sqrt{2}\right)^2$

答. $3-2\sqrt{2}$

平方根＜(ａ＋ｂ)(ａ-ｂ)/(ａ±ｂ)＾２＞No.5の解答

1. 次の式を簡単にせよ。

(1) $\left(1+\sqrt{8}\right)^2$

答. $9+4\sqrt{2}$

(2) $\left(\sqrt{2}+1\right)\left(\sqrt{2}-1\right)$

答. 1

(3) $\left(\sqrt{3}-\sqrt{8}\right)^2$

答. $11-4\sqrt{6}$

(4) $\left(\sqrt{3}-3\sqrt{5}\right)\left(\sqrt{3}+3\sqrt{5}\right)$

答. -42

(5) $\left(\sqrt{2}-\sqrt{3}\right)^2$

答. $5-2\sqrt{6}$

(6) $\left(3\sqrt{3}-\sqrt{2}\right)^2$

答. $29-6\sqrt{6}$

(7) $\left(\sqrt{8}-\sqrt{5}\right)^2$

答. $13-4\sqrt{10}$

(8) $\left(\sqrt{2}-\sqrt{3}\right)^2$

答. $5-2\sqrt{6}$

(9) $\left(\sqrt{2}-1\right)^2$

答. $3-2\sqrt{2}$

(10) $\left(3\sqrt{3}-3\right)\left(3\sqrt{3}+3\right)$

答. 18