平方根 乗法公式（20問）　版J

なまえ：＿＿＿＿＿＿＿＿＿＿＿＿　　日づけ：＿＿＿＿＿＿

(1) $(\sqrt{2}+1)(\sqrt{2}-1)=$

(2) $\sqrt{2}(\sqrt{5}-1)=$

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

(4) $(\sqrt{7}+1)(\sqrt{7}-1)=$

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

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

(7) $\sqrt{2}(\sqrt{6}+1)=$

(8) $(\sqrt{5}+\sqrt{7})(\sqrt{5}-\sqrt{7})=$

(9) $(\sqrt{3}+\sqrt{7})(\sqrt{3}-\sqrt{7})=$

(10) $(2\sqrt{2}-5)(\sqrt{2}+2)=$

(11) $(\sqrt{3}+1)^2=$

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

(13) $\sqrt{6}(\sqrt{3}+3)=$

(14) $(\sqrt{5}+1)(\sqrt{5}-2)=$

(15) $(\sqrt{2}-1)^2=$

(16) $(\sqrt{2}-2)(\sqrt{2}-1)=$

(17) $\sqrt{3}(\sqrt{5}+2)=$

(18) $(\sqrt{6}-5)^2=$

(19) $(\sqrt{6}+4)^2=$

(20) $(\sqrt{5}-1)^2=$

平方根 乗法公式（20問）　版Jの答え

※ $(a+b)^2$ の真ん中の項 $2ab$ を落としていないかを見てください。

(1) $(\sqrt{2}+1)(\sqrt{2}-1)$
$=1$

(2) $\sqrt{2}(\sqrt{5}-1)$
$=\sqrt{10}-\sqrt{2}$

(3) $(\sqrt{3}+5)(\sqrt{3}-1)$
$=-2+4\sqrt{3}$

(4) $(\sqrt{7}+1)(\sqrt{7}-1)$
$=6$

(5) $\sqrt{2}(\sqrt{5}+5)$
$=5\sqrt{2}+\sqrt{10}$

(6) $(\sqrt{3}+4)(\sqrt{3}-2)$
$=-5+2\sqrt{3}$

(7) $\sqrt{2}(\sqrt{6}+1)$
$=\sqrt{2}+2\sqrt{3}$

(8) $(\sqrt{5}+\sqrt{7})(\sqrt{5}-\sqrt{7})$
$=-2$

(9) $(\sqrt{3}+\sqrt{7})(\sqrt{3}-\sqrt{7})$
$=-4$

(10) $(2\sqrt{2}-5)(\sqrt{2}+2)$
$=-6-\sqrt{2}$

(11) $(\sqrt{3}+1)^2$
$=4+2\sqrt{3}$

(12) $(\sqrt{2}+\sqrt{5})(\sqrt{2}-\sqrt{5})$
$=-3$

(13) $\sqrt{6}(\sqrt{3}+3)$
$=3\sqrt{2}+3\sqrt{6}$

(14) $(\sqrt{5}+1)(\sqrt{5}-2)$
$=3-\sqrt{5}$

(15) $(\sqrt{2}-1)^2$
$=3-2\sqrt{2}$

(16) $(\sqrt{2}-2)(\sqrt{2}-1)$
$=4-3\sqrt{2}$

(17) $\sqrt{3}(\sqrt{5}+2)$
$=2\sqrt{3}+\sqrt{15}$

(18) $(\sqrt{6}-5)^2$
$=31-10\sqrt{6}$

(19) $(\sqrt{6}+4)^2$
$=22+8\sqrt{6}$

(20) $(\sqrt{5}-1)^2$
$=6-2\sqrt{5}$