

中3数学	平方根	氏名
展開の利用		

1 次の計算をせよ。

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

.....

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

.....

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

.....

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

.....

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

.....

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

.....

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

.....

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

.....

(9) $(4\sqrt{2}+5)(4\sqrt{2}-5)$

.....

(10) $(3\sqrt{5}-2\sqrt{2})(3\sqrt{5}+2\sqrt{2})$

.....



2 次の計算をせよ。

(1) $(\sqrt{7} + \sqrt{5})^2$

.....

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

.....

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

.....

(4) $(\sqrt{10} - \sqrt{2})^2$

.....

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

.....

(6) $(\sqrt{7} - 5)^2$

.....

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

.....

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

.....

(9) $(2\sqrt{3} + 2)^2$

.....

(10) $(3\sqrt{2} - 4)^2$

.....



【解答】

- 1 (1) -7 (2) -13 (3) -31 (4) -2 (5) 7
(6) -2 (7) -10 (8) -5 (9) 7 (10) 37

- 2 (1) $12 + 2\sqrt{35}$ (2) $7 + 2\sqrt{10}$ (3) $9 - 6\sqrt{2}$ (4) $12 - 4\sqrt{5}$
(5) $9 + 4\sqrt{5}$ (6) $32 - 10\sqrt{7}$ (7) $20 + 6\sqrt{11}$ (8) $7 - 2\sqrt{6}$
(9) $16 + 8\sqrt{3}$ (10) $34 - 24\sqrt{2}$

