次の計算をしなさい。

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

$4+\sqrt{2}$

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

$3+6\sqrt{3}$

(3) $\sqrt{18}(\sqrt{3}+\sqrt{2})$

$3\sqrt{6}+6$

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

$8-3\sqrt{6}$

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

$2+3\sqrt{10}-\sqrt{10}-15$ $-13+2\sqrt{10}$

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

$10-4\sqrt{6}$

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

$19-4\sqrt{21}$

(8) $(\sqrt{15}-\sqrt{6})(\sqrt{15}+\sqrt{6})$

9

(9) $(\sqrt{50}+3\sqrt{2})(5\sqrt{2}-\sqrt{18})$

32

(10) $-(\sqrt{5}-\sqrt{8})^2$

$-13+4\sqrt{10}$