

次の二重根号を外しなさい。

(1) $\sqrt{9+2\sqrt{14}}$

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

(5) $\sqrt{5-\sqrt{21}}$

(7) $\sqrt{11-4\sqrt{7}}$

(2) $\sqrt{7-\sqrt{48}}$

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

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

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

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

(2) $\sqrt{7-2\sqrt{12}}$
 $= 2-\sqrt{3}$

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

(4) $\sqrt{8-2\sqrt{12}}$
 $= \sqrt{6}-\sqrt{2}$

(5) $\sqrt{\frac{10-2\sqrt{21}}{2}}$
 $= \frac{\sqrt{7}-\sqrt{3}}{\sqrt{2}}$
 $= \frac{\sqrt{14}-\sqrt{6}}{2}$

(6) $\sqrt{\frac{6-2\sqrt{5}}{2}}$
 $= \frac{\sqrt{5}-1}{\sqrt{2}}$
 $= \frac{\sqrt{10}-\sqrt{2}}{2}$

(7) $\sqrt{11-2\sqrt{28}}$
 $= \sqrt{7}-2$

(8) $\sqrt{\frac{20+2\sqrt{75}}{2}}$
 $= \frac{\sqrt{15}+\sqrt{5}}{\sqrt{2}}$
 $= \frac{\sqrt{30}+\sqrt{10}}{2}$