

氏名 () 点数 _____

$$\begin{aligned}
 (1) & (\sqrt{3}-3)(\sqrt{3}-5) \\
 & =(\sqrt{3})^2+(-3-5)\sqrt{3}+(-3)\times(-5) \\
 & =3-8\sqrt{3}+15 \\
 & =\underline{18-8\sqrt{3}}
 \end{aligned}$$

$$\begin{aligned}
 (2) & (\sqrt{5}-2)(\sqrt{5}+3) \\
 & =(\sqrt{5})^2+(-2+3)\sqrt{5}+(-2)\times 3 \\
 & =5+\sqrt{5}-6 \\
 & =\underline{-1+\sqrt{5}}
 \end{aligned}$$

$$\begin{aligned}
 (3) & (\sqrt{3}-2\sqrt{5})(\sqrt{3}-\sqrt{5}) \\
 & =(\sqrt{3})^2+(-2\sqrt{5}-\sqrt{5})\sqrt{3}+(-2\sqrt{5})\times(-\sqrt{5}) \\
 & =3-3\sqrt{5}\times\sqrt{3}+10 \\
 & =\underline{13-3\sqrt{15}}
 \end{aligned}$$

$$\begin{aligned}
 (4) & (\sqrt{2}-3\sqrt{3})(\sqrt{2}+\sqrt{3}) \\
 & =(\sqrt{2})^2+(-3\sqrt{3}+\sqrt{3})\sqrt{2}+(-3\sqrt{3})\times\sqrt{3} \\
 & =2-2\sqrt{3}\times\sqrt{2}-9 \\
 & =\underline{-7-2\sqrt{6}}
 \end{aligned}$$

$$\begin{aligned}
 (5) & (\sqrt{6}+\sqrt{2})^2 \\
 & =(\sqrt{6})^2+2\times\sqrt{6}\times\sqrt{2}+(\sqrt{2})^2 \\
 & =6+2\sqrt{12}+2 \\
 & =\underline{8+4\sqrt{3}}
 \end{aligned}$$

$$\begin{aligned}
 (6) & (\sqrt{5}-\sqrt{3})^2 \\
 & =(\sqrt{5})^2-2\times\sqrt{5}\times\sqrt{3}+(\sqrt{3})^2 \\
 & =5-2\sqrt{15}+3 \\
 & =\underline{8-2\sqrt{15}}
 \end{aligned}$$

$$\begin{aligned}
 (7) & (2\sqrt{3}+3)^2 \\
 & =(2\sqrt{3})^2+2\times 3\times 2\sqrt{3}+3^2 \\
 & =12+12\sqrt{3}+9 \\
 & =\underline{21+12\sqrt{3}}
 \end{aligned}$$

$$\begin{aligned}
 (8) & (\sqrt{5}-\sqrt{2})(\sqrt{5}+\sqrt{2}) \\
 & =(\sqrt{5})^2-(\sqrt{2})^2 \\
 & =5-2 \\
 & =\underline{3}
 \end{aligned}$$

$$\begin{aligned}
 (9) & (2\sqrt{3}-\sqrt{7})(2\sqrt{3}+\sqrt{7}) \\
 & =(2\sqrt{3})^2-(\sqrt{7})^2 \\
 & =12-7 \\
 & =\underline{5}
 \end{aligned}$$

$$\begin{aligned}
 (10) & (4\sqrt{2}-6)(4\sqrt{2}+6) \\
 & =(4\sqrt{2})^2-6^2 \\
 & =32-36 \\
 & =\underline{-4}
 \end{aligned}$$