

【解答】

ミニ復習	平方根の計算Ⅱ 1
氏名	
①	$\begin{aligned} & \sqrt{3}(\sqrt{3}+2) \\ & =(\sqrt{3})^2+2\sqrt{3} \\ & =3+2\sqrt{3} \end{aligned}$
②	$\begin{aligned} & (\sqrt{5}+3)(\sqrt{5}+2) \\ & =(\sqrt{5})^2+5\sqrt{5}+6 \\ & =5+5\sqrt{5}+6=11+5\sqrt{5} \end{aligned}$
③	$\begin{aligned} & (\sqrt{6}+\sqrt{2})(\sqrt{6}-\sqrt{2}) \\ & =(\sqrt{6})^2-(\sqrt{2})^2 \\ & =6-2=4 \end{aligned}$
④	$\begin{aligned} & (\sqrt{7}+2)(\sqrt{7}-3) \\ & =(\sqrt{7})^2-\sqrt{7}-6 \\ & =7-\sqrt{7}-6=1-\sqrt{7} \end{aligned}$
⑤	$\begin{aligned} & (\sqrt{3}-1)^2 \\ & =(\sqrt{3})^2-2\sqrt{3}+1^2 \\ & =3-2\sqrt{3}+1=4-2\sqrt{3} \end{aligned}$

ミニ復習	平方根の計算Ⅱ 3
氏名	
①	$\begin{aligned} & \sqrt{2}(\sqrt{2}+5) \\ & =(\sqrt{2})^2+5\sqrt{2} \\ & =2+5\sqrt{2} \end{aligned}$
②	$\begin{aligned} & (\sqrt{3}+4)(\sqrt{3}+3) \\ & =(\sqrt{3})^2+7\sqrt{3}+12 \\ & =3+7\sqrt{3}+12=15+7\sqrt{3} \end{aligned}$
③	$\begin{aligned} & (\sqrt{7}+\sqrt{3})(\sqrt{7}-\sqrt{3}) \\ & =(\sqrt{7})^2-(\sqrt{3})^2 \\ & =7-3=4 \end{aligned}$
④	$\begin{aligned} & (\sqrt{5}+2)(\sqrt{5}-5) \\ & =(\sqrt{5})^2-3\sqrt{5}-10 \\ & =5-3\sqrt{5}-10=-5-3\sqrt{5} \end{aligned}$
⑤	$\begin{aligned} & (\sqrt{2}-3)^2 \\ & =(\sqrt{2})^2-6\sqrt{2}+3^2 \\ & =2-6\sqrt{2}+9=11-6\sqrt{2} \end{aligned}$

ミニ復習	平方根の計算Ⅱ 5
氏名	
①	$\begin{aligned} & \sqrt{7}(\sqrt{7}+3) \\ & =(\sqrt{7})^2+3\sqrt{7} \\ & =7+3\sqrt{7} \end{aligned}$
②	$\begin{aligned} & (\sqrt{5}+1)(\sqrt{5}+2) \\ & =(\sqrt{5})^2+3\sqrt{5}+2 \\ & =5+3\sqrt{5}+2=7+3\sqrt{5} \end{aligned}$
③	$\begin{aligned} & (\sqrt{3}+\sqrt{2})(\sqrt{3}-\sqrt{2}) \\ & =(\sqrt{3})^2-(\sqrt{2})^2 \\ & =3-2=1 \end{aligned}$
④	$\begin{aligned} & (\sqrt{6}+3)(\sqrt{6}-5) \\ & =(\sqrt{6})^2-2\sqrt{6}-15 \\ & =6-2\sqrt{6}-15=-9-2\sqrt{6} \end{aligned}$
⑤	$\begin{aligned} & (\sqrt{5}-3)^2 \\ & =(\sqrt{5})^2-6\sqrt{5}+3^2 \\ & =5-6\sqrt{5}+9=14-6\sqrt{5} \end{aligned}$

ミニ復習	平方根の計算Ⅱ 7
氏名	
①	$\begin{aligned} & \sqrt{6}(\sqrt{6}+3) \\ & =(\sqrt{6})^2+3\sqrt{6} \\ & =6+3\sqrt{6} \end{aligned}$
②	$\begin{aligned} & (\sqrt{3}+1)(\sqrt{3}+2) \\ & =(\sqrt{3})^2+3\sqrt{3}+2 \\ & =3+3\sqrt{3}+2=5+3\sqrt{3} \end{aligned}$
③	$\begin{aligned} & (\sqrt{7}+\sqrt{3})(\sqrt{7}-\sqrt{3}) \\ & =(\sqrt{7})^2-(\sqrt{3})^2 \\ & =7-3=4 \end{aligned}$
④	$\begin{aligned} & (\sqrt{5}+1)(\sqrt{5}-4) \\ & =(\sqrt{5})^2-3\sqrt{5}-4 \\ & =5-3\sqrt{5}-4=1-3\sqrt{5} \end{aligned}$
⑤	$\begin{aligned} & (\sqrt{2}-5)^2 \\ & =(\sqrt{2})^2-10\sqrt{2}+5^2 \\ & =2-10\sqrt{2}+25=27-10\sqrt{2} \end{aligned}$

ミニ復習	平方根の計算Ⅱ 2
氏名	
①	$\begin{aligned} & \sqrt{5}(\sqrt{5}-3) \\ & =(\sqrt{5})^2-3\sqrt{5} \\ & =5-3\sqrt{5} \end{aligned}$
②	$\begin{aligned} & (\sqrt{2}+1)(\sqrt{2}+2) \\ & =(\sqrt{2})^2+3\sqrt{2}+2 \\ & =2+3\sqrt{2}+2=4+3\sqrt{2} \end{aligned}$
③	$\begin{aligned} & (\sqrt{7}+2)(\sqrt{7}-2) \\ & =(\sqrt{7})^2-2^2 \\ & =7-4=3 \end{aligned}$
④	$\begin{aligned} & (\sqrt{6}+2)(\sqrt{6}-4) \\ & =(\sqrt{6})^2-2\sqrt{6}-8 \\ & =6-2\sqrt{6}-8=-2-2\sqrt{6} \end{aligned}$
⑤	$\begin{aligned} & (\sqrt{5}+3)^2 \\ & =(\sqrt{5})^2+6\sqrt{5}+3^2 \\ & =5+6\sqrt{5}+9=14+6\sqrt{5} \end{aligned}$

ミニ復習	平方根の計算Ⅱ 4
氏名	
①	$\begin{aligned} & \sqrt{6}(\sqrt{6}-2) \\ & =(\sqrt{6})^2-2\sqrt{6} \\ & =6-2\sqrt{6} \end{aligned}$
②	$\begin{aligned} & (\sqrt{5}+1)(\sqrt{5}+2) \\ & =(\sqrt{5})^2+3\sqrt{5}+2 \\ & =5+3\sqrt{5}+2=7+3\sqrt{5} \end{aligned}$
③	$\begin{aligned} & (\sqrt{11}+3)(\sqrt{11}-3) \\ & =(\sqrt{11})^2-3^2 \\ & =11-9=2 \end{aligned}$
④	$\begin{aligned} & (\sqrt{7}+3)(\sqrt{7}-5) \\ & =(\sqrt{7})^2-2\sqrt{7}-15 \\ & =7-2\sqrt{7}-15=-8-2\sqrt{7} \end{aligned}$
⑤	$\begin{aligned} & (\sqrt{3}+1)^2 \\ & =(\sqrt{3})^2+2\sqrt{3}+1^2 \\ & =3+2\sqrt{3}+1=4+2\sqrt{3} \end{aligned}$

ミニ復習	平方根の計算Ⅱ 6
氏名	
①	$\begin{aligned} & \sqrt{3}(\sqrt{3}-5) \\ & =(\sqrt{3})^2-5\sqrt{3} \\ & =3-5\sqrt{3} \end{aligned}$
②	$\begin{aligned} & (\sqrt{6}+3)(\sqrt{6}+2) \\ & =(\sqrt{6})^2+5\sqrt{6}+6 \\ & =6+5\sqrt{6}+6=12+5\sqrt{6} \end{aligned}$
③	$\begin{aligned} & (\sqrt{5}+2)(\sqrt{5}-2) \\ & =(\sqrt{5})^2-2^2 \\ & =5-4=1 \end{aligned}$
④	$\begin{aligned} & (\sqrt{3}+2)(\sqrt{3}-3) \\ & =(\sqrt{3})^2-\sqrt{3}-6 \\ & =3-\sqrt{3}-6=-3-\sqrt{3} \end{aligned}$
⑤	$\begin{aligned} & (\sqrt{2}+3)^2 \\ & =(\sqrt{2})^2+6\sqrt{2}+3^2 \\ & =2+6\sqrt{2}+9=11+6\sqrt{2} \end{aligned}$

ミニ復習	平方根の計算Ⅱ 8
氏名	
①	$\begin{aligned} & \sqrt{2}(\sqrt{2}-1) \\ & =(\sqrt{2})^2-\sqrt{2} \\ & =2-\sqrt{2} \end{aligned}$
②	$\begin{aligned} & (\sqrt{7}+3)(\sqrt{7}+2) \\ & =(\sqrt{7})^2+5\sqrt{7}+6 \\ & =7+5\sqrt{7}+6=13+5\sqrt{7} \end{aligned}$
③	$\begin{aligned} & (\sqrt{5}+3)(\sqrt{5}-3) \\ & =(\sqrt{5})^2-3^2 \\ & =5-9=-4 \end{aligned}$
④	$\begin{aligned} & (\sqrt{6}+2)(\sqrt{6}-5) \\ & =(\sqrt{6})^2-3\sqrt{6}-10 \\ & =6-3\sqrt{6}-10=-4-3\sqrt{6} \end{aligned}$
⑤	$\begin{aligned} & (\sqrt{3}+1)^2 \\ & =(\sqrt{3})^2+2\sqrt{3}+1^2 \\ & =3+2\sqrt{3}+1=4+2\sqrt{3} \end{aligned}$