



答之合わせ②

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

$$\frac{1 \times (\sqrt{6} + 2)}{(\sqrt{6} - 2) \times (\sqrt{6} + 2)} = \frac{\sqrt{6} + 2}{\sqrt{36} - 2^2} = \frac{\sqrt{6} + 2}{6 - 4} = \frac{\sqrt{6} + 2}{2}$$

$$(6) \frac{1}{\sqrt{7} + \sqrt{5}}$$

$$\frac{1 \times (\sqrt{7} - \sqrt{5})}{(\sqrt{7} + \sqrt{5}) \times (\sqrt{7} - \sqrt{5})} = \frac{\sqrt{7} - \sqrt{5}}{\sqrt{49} - \sqrt{25}} = \frac{\sqrt{7} - \sqrt{5}}{7 - 5} = \frac{\sqrt{7} - \sqrt{5}}{2}$$

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

展開!



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