

$$\frac{1}{\sqrt{3} + \sqrt{2}} = \frac{1 \times (\sqrt{3} - \sqrt{2})}{(\sqrt{3} + \sqrt{2}) \times (\sqrt{3} - \sqrt{2})}$$

分母に
 $\sqrt{^2} - \sqrt{^2}$ を
つくる

$$= \frac{\sqrt{3} - \sqrt{2}}{(\sqrt{3})^2 - (\sqrt{2})^2} = \frac{\sqrt{3} - \sqrt{2}}{3 - 2} = \underline{\underline{\sqrt{3} - \sqrt{2}}}$$

point

分母に $\sqrt{^2} - \sqrt{^2}$ の形をつくらう!
2乗 - 2乗

問題 次の式の分母を有理化せよ.

$$(1) \frac{1}{\sqrt{3} + \sqrt{2}} = \frac{1(\sqrt{3} - \sqrt{2})}{(\sqrt{3} + \sqrt{2})(\sqrt{3} - \sqrt{2})}$$

$$= \frac{\sqrt{3} - \sqrt{2}}{(\sqrt{3})^2 - (\sqrt{2})^2}$$

$$= \frac{\sqrt{3} - \sqrt{2}}{3 - 2} = \underline{\underline{\sqrt{3} - \sqrt{2}}}$$

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

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

$$= \frac{\sqrt{10} + \sqrt{6}}{5 - 3}$$

$$= \underline{\underline{\frac{\sqrt{10} + \sqrt{6}}{2}}}$$