

$$9. \because \sqrt{3}-\sqrt{2}=\frac{(\sqrt{3}-\sqrt{2})(\sqrt{3}+\sqrt{2})}{(\sqrt{3}+\sqrt{2})}=\frac{1}{(\sqrt{3}+\sqrt{2})}$$

$$\therefore \text{令 } y=\sqrt{3}-\sqrt{2} > 0, y^{-1}=\sqrt{3}+\sqrt{2} > 0$$

$$\text{原式}=y^{\log_{y^{-1}} 7}=y^{\frac{1}{y^{-1}} \log_y 7}=y^{\log_y \frac{1}{7}}=\frac{1}{7} \cdots (A)$$