

$$1) \frac{2}{\sqrt{5} + \sqrt{3}} = ?$$

$$\begin{aligned} \frac{2}{\sqrt{5} + \sqrt{3}} &= \frac{2(\sqrt{5} - \sqrt{3})}{(\sqrt{5} + \sqrt{3})(\sqrt{5} - \sqrt{3})} \\ &= \frac{2(\sqrt{5} - \sqrt{3})}{\sqrt{25} - \sqrt{9}} = \frac{2(\sqrt{5} - \sqrt{3})}{5 - 3} \\ &= \frac{2(\sqrt{5} - \sqrt{3})}{2} = \sqrt{5} - \sqrt{3} \end{aligned}$$