

SURDS : 2

Simplify the following

$$1) \quad \frac{5 - \sqrt{3}}{\sqrt{3} + 1}$$

$$2) \quad (2 + \sqrt{3})(4 - \sqrt{12})$$

$$3) \quad 2\sqrt{32} + 3\sqrt{8} - \sqrt{18}$$

$$4) \quad \frac{6 + \sqrt{30}}{6 - \sqrt{30}}$$

$$5) \quad 2\sqrt{8} + \sqrt{18} - \frac{12}{\sqrt{2}}$$

$$6) \quad \frac{5 + \sqrt{15}}{5 - \sqrt{15}}$$

$$7) \quad \sqrt{20} + \frac{\sqrt{35}}{\sqrt{7}} - \frac{20}{\sqrt{5}}$$

$$8) \quad \frac{2 + \sqrt{3}}{5 + 2\sqrt{3}}$$

$$9) \quad \sqrt{75} - \frac{9}{\sqrt{3}} + (\sqrt{6} \times \sqrt{2})$$

$$10) \quad \frac{5\sqrt{5} - 2}{4 + \sqrt{5}}$$