

$$\begin{aligned}
 9 \text{ (iii)} \quad & \frac{3}{\sqrt{8}} + \frac{1}{\sqrt{2}} \\
 &= \frac{3}{\sqrt{2 \times 2 \times 2}} + \frac{1}{\sqrt{2}} \\
 &= \frac{3}{2\sqrt{2}} + \frac{1}{\sqrt{2}} \\
 &= \frac{3+2}{2\sqrt{2}} \\
 &= \frac{5}{2\sqrt{2}} \times \frac{\sqrt{2}}{\sqrt{2}} \\
 &= \frac{5\sqrt{2}}{2 \times 2} \\
 &= \frac{5\sqrt{2}}{4}
 \end{aligned}$$

$$\begin{aligned}
 9 \text{ (x)} \quad & 2\sqrt{\frac{3}{3}} - \frac{\sqrt{3}}{6} \\
 &= 4 \frac{\sqrt{3} - \sqrt{3}}{6} \\
 &= \frac{3\sqrt{3}}{6 \times 2} = \frac{\sqrt{3}}{2}
 \end{aligned}$$

$$\begin{aligned}
 10 \text{ (i)} \quad & \frac{2}{3\sqrt{3}} \times \frac{\sqrt{3}}{\sqrt{3}} \\
 &= \frac{2\sqrt{3}}{3 \times 3} \\
 &= \frac{2\sqrt{3}}{9}
 \end{aligned}$$

$$\begin{aligned}
 10 \text{ (ii)} \quad & \frac{\sqrt{40}}{\sqrt{3}} \\
 &= \frac{\sqrt{40}}{\sqrt{3}} \times \frac{\sqrt{3}}{\sqrt{3}} \\
 &= \frac{\sqrt{40 \times 3}}{\sqrt{3 \times 3}} \\
 &= \frac{\sqrt{120}}{3} = \frac{\sqrt{2^2 \times 30}}{3} = \frac{2\sqrt{30}}{3}
 \end{aligned}$$

$$\begin{aligned}
 10 \text{ (iii)} \quad & \frac{3+\sqrt{2}}{4\sqrt{2}} \\
 &= \frac{3+\sqrt{2}}{4\sqrt{2}} \times \frac{\sqrt{2}}{\sqrt{2}} \\
 &= \frac{3\sqrt{2} + \sqrt{2} \times \sqrt{2}}{4\sqrt{2} \times \sqrt{2}} \\
 &= \frac{3\sqrt{2} + 2}{4 \times 2} \\
 &= \frac{3\sqrt{2} + 2}{8}
 \end{aligned}$$

$$\begin{aligned}
 10 \text{ (iv)} \quad & \frac{16}{\sqrt{41} - 5} \\
 &= \frac{16}{\sqrt{41} - 5} \times \frac{\sqrt{41} + 5}{\sqrt{41} + 5} \\
 &= \frac{16(\sqrt{41} + 5)}{(\sqrt{41})^2 - 5^2} \\
 &= \frac{16(\sqrt{41} + 5)}{41 - 25} \\
 &= \frac{16(\sqrt{41} + 5)}{16} \\
 &= \sqrt{41} + 5
 \end{aligned}$$