

S.22/16q,r

$$q) \frac{\sqrt{x^3}}{x} = \frac{\sqrt{x^2} \sqrt{x}}{x} = \frac{x\sqrt{x}}{x} = \sqrt{x}$$

$$r) \frac{\sqrt{18y^3}}{6y} = \frac{3y\sqrt{2y}}{6y} = \frac{\sqrt{2y}}{2} \left(= \frac{\sqrt{y}}{\sqrt{2}} \right)$$

S.23/17k

$$\frac{2}{\sqrt[3]{5^5}} = \frac{2}{5^{\frac{5}{3}}} = \frac{2 \cdot 5^{\frac{1}{3}}}{5^{\frac{5}{3} \cdot \frac{1}{3}}} = \frac{2 \cdot 5^{\frac{1}{3}}}{5^{\frac{5}{9}}} = \frac{2 \cdot 5^{\frac{1}{3}}}{5^2} = \frac{2}{25} \sqrt[3]{5}$$

S.23/18c

$$\frac{75a}{\sqrt[3]{5a}} = \frac{75a(\sqrt[3]{5a})^2}{\sqrt[3]{5a}(\sqrt[3]{5a})^2} = \frac{75a \sqrt[3]{25a^2}}{5a} = 15 \sqrt[3]{25a^2}$$

S.23/22d

$$\frac{3}{5-\sqrt{x}} + \frac{2}{5+\sqrt{x}} = \frac{3(5+\sqrt{x}) + 2(5-\sqrt{x})}{(5-\sqrt{x})(5+\sqrt{x})} = \frac{15+3\sqrt{x}+10-2\sqrt{x}}{25-x} = \frac{25+\sqrt{x}}{25-x}$$