

**Mocniny**

$$2c) \sqrt{90000} - 2\sqrt{400} = 300 - 2 \cdot 20 = 260$$

$$3c) \sqrt{\frac{81}{144}} = \frac{\sqrt{81}}{\sqrt{144}} = \frac{9}{12} = \frac{3}{4}$$

$$4e) \sqrt[3]{\frac{1}{8}} - \sqrt[3]{\frac{1}{27}} + \sqrt[3]{\frac{1}{64}} + 1 = \frac{1}{2} - \frac{1}{3} + \frac{1}{4} + 1 = \frac{6-4+3+12}{12} = \frac{17}{12}$$

**Cawt02**

$$15) 100^{\frac{1}{2}} = \sqrt{100} = 10$$

$$24) 4^{-1} + 4^2 = \frac{1}{4} + 16 = \frac{65}{4}$$

$$29) (2y)(3y^2)(5y^4) = 2 \cdot 3 \cdot 5 \cdot y^{1+2+4} = 30y^7$$

$$38) (125a^{-9}b^{12})^{\frac{1}{3}} = \sqrt[3]{125} \cdot \sqrt[3]{\frac{1}{a^9}} \cdot \sqrt[3]{b^{12}} = 5 \cdot \frac{1}{a^3} \cdot b^4 = \frac{5b^4}{a^3}$$

$$86) (a^{\frac{m}{3}} \cdot b^{\frac{n}{2}})^{-6} = \frac{1}{a^{6 \cdot \frac{m}{3}} \cdot b^{6 \cdot \frac{n}{2}}} = \frac{1}{a^{2m} \cdot b^{3n}}$$

$$52) \left(\frac{m^{-2} \cdot n^3}{m^4 \cdot n^{-1}}\right)^2 = \frac{m^{-4} \cdot n^6}{m^8 \cdot n^{-2}} = m^{-12} \cdot n^8 = \frac{n^8}{m^{12}}$$

$$59) \left(\frac{8a^{-4}b^3}{27a^2b^{-3}}\right)^{\frac{1}{3}} = \sqrt[3]{\frac{8}{27} a^{-6} b^6} = \frac{2\sqrt[3]{b^6}}{3\sqrt[3]{a^6}} = \frac{2b^2}{3a^2}$$