

$48^{\frac{2}{3}}$ $\sqrt[3]{180}$ *multiplik*
 $a) = \sqrt[3]{48^2}$ *multiplik*
 $\frac{32^{\frac{2}{3}}}{1} = \frac{1}{32^{\frac{2}{3}}} = \frac{1}{\sqrt[3]{32^2}}$
 $b) (\frac{2}{8})^{\frac{5}{2}} = (\frac{2}{8})^{\frac{5}{2}} = \sqrt{(\frac{2}{8})^5}$
 $0.5 = \frac{1}{2}$ $\frac{2.5}{1} \rightarrow \frac{5.0}{2} = \frac{5}{2}$
 $1.0 = \frac{2}{2}$ $\frac{1}{2}$
 $1.5 = \frac{3}{2}$
 $x^{\frac{m}{n}} = \sqrt[n]{x^m} = (\sqrt[n]{x})^m$
 $\sqrt[4]{81^2} = \sqrt[4]{81 \cdot 81} = \sqrt[4]{531441} = 27$
 $(\sqrt[4]{81})^2 = (\frac{3}{1})^2 = \frac{9}{1} = 9$
 $\frac{3^3}{1} = \frac{27}{1} = 27$

Oct 13-12:49 PM

$\sqrt{\frac{9}{16}} = \frac{3}{4}$
 $(\frac{3}{4})^2 = \frac{3}{4} \times \frac{3}{4} = \frac{9}{16}$
 $\frac{3}{4}^2 = \frac{3 \cdot 3}{4 \cdot 4} = \frac{9}{16}$
 $\sqrt[9]{81^3} = \sqrt[9]{531441} = 27$
 $(\sqrt[4]{81})^3 = 3^3 = 27$

Oct 13-2:05 PM

$a) \sqrt{16} = 4$ $b) \sqrt{180}$
 $\sqrt{75} = \sqrt{25 \cdot 3} = 5\sqrt{3}$
 $\sqrt{36} \cdot \sqrt{5} = 6\sqrt{5}$
 $7) -2\sqrt{27} = -2 \cdot 3 \cdot \sqrt{3} = -6\sqrt{3}$
 $9) \sqrt[3]{40} = \sqrt[3]{8 \cdot 5} = 2\sqrt[3]{5}$

Oct 13-2:10 PM

$15) \frac{\sqrt{15}}{\sqrt{12}} \times \frac{\sqrt{12}}{\sqrt{12}} = \frac{\sqrt{180}}{12}$
 $\frac{\sqrt{36 \cdot 5}}{12} = \frac{6\sqrt{5}}{12} = \frac{\sqrt{5}}{2}$

Oct 13-2:41 PM

$a) p^1 \cdot 2p^{-4} = 2p^{1-4} = 2p^{-3}$
 $\frac{2}{p^3} = \frac{2p^{-3}}{(2p)^{-3}} = \frac{1}{(2p)^3}$

Oct 13-2:52 PM