$$а) \sqrt{а^{4}b^{4}}=\sqrt{а^{4}}\*\sqrt{b^{4}}=\sqrt{\left(а^{2}\right)^{2}}\*\sqrt{\left(b^{2}\right)^{2}}=\left|a^{2}\right|\*\left|b^{2}\right|=a^{2}b^{2}$$

$$б)\sqrt{b^{6}c^{8}}=\sqrt{b^{6}}\*\sqrt{c^{8}}=\sqrt{\left(b^{3}\right)^{2}}\*\sqrt{\left(a^{4}\right)^{2}}=\left|b^{3}\right|\*\left|c^{4}\right|=b^{3}c^{4}$$

$$в) \sqrt{16х^{4}у^{12}}=\sqrt{16}\*\sqrt{\left(х^{2}\right)^{2}}\*\sqrt{\left(у^{6}\right)^{2}}=4\*\left|х^{2}\right|\*\left|у^{6}\right|=4х^{2}у^{6}$$

$$\sqrt{0,25р^{2}у^{6}}=0,25\*\sqrt{р^{2}}\*\sqrt{\left(у^{3}\right)^{2}}=0,5\*\left|р\right|\*\left|у^{3}\right|=-0,5ру^{3}$$

$$\sqrt{\frac{р^{4}}{а^{8}}}=\frac{\sqrt{р^{4}}}{\sqrt{а^{8}}}=\frac{\sqrt{\left(р^{2}\right)^{2}}}{\sqrt{\left(а^{4}\right)^{2}}}=\frac{\left|р^{2}\right|}{\left|а^{4}\right|}=\frac{р^{2}}{а^{4}}$$

$$\sqrt{\frac{16а^{12}}{b^{10}}}=\frac{\sqrt{16}\*\sqrt{a^{12}}}{\sqrt{b^{10}}}=\frac{4\sqrt{\left(a^{6}\right)^{2}}}{\sqrt{\left(b^{5}\right)^{2}}}=\frac{4\left|a^{6}\right|}{\left|b^{5}\right|}=\frac{4a^{6}}{b^{5}}$$

$$\sqrt{\frac{4x^{2}}{у^{2}}}=\frac{\sqrt{4}\*\sqrt{х^{2}}}{\sqrt{у^{2}}}=\frac{2\left|х\right|}{\left|у\right|}=\frac{-2х}{-у}=\frac{2х}{у}$$

$$\sqrt{\frac{с^{6}}{9а^{2}}}=\frac{\sqrt{\left(с^{3}\right)^{2}}}{\sqrt{9}\*\sqrt{а^{2}}}=\frac{\left|с^{3}\right|}{3\left|а\right|}=\frac{-с^{3}}{3а}$$