

$$\sqrt[4]{9x^5y^2} \cdot \sqrt[4]{9x^5y^4} \cdot \sqrt[4]{x^2y^2} = \sqrt[4]{9x^5y^2 \cdot 9x^5y^4 \cdot x^2y^2} = \sqrt[4]{81x^{5+5+2}y^{2+4+2}} =$$

$$= \sqrt[4]{81x^{12}y^8} = \sqrt[4]{3^4(x^3)^4(y^2)^4} = \sqrt[4]{3^4} \cdot \sqrt[4]{(x^3)^4} \cdot$$

$$\sqrt[4]{(y^2)^4} = 3x^3y^2$$