

$$\sqrt[2]{x^{10}} =$$

$$\sqrt[4]{x^{20}} =$$

$$\sqrt[3]{x^{15}} =$$

$$\sqrt[5]{x^{100}} =$$

$$\sqrt[2]{x^{10} y^8} = x y$$

$$\sqrt[4]{x^{20} y^4 z^8} = x y z$$

$$\sqrt[3]{8a^{15} b^6 c^{30}} = 2 a b c$$

$$\begin{array}{c} \sqrt[2]{x^{11} y^8} \\ \swarrow \quad \searrow \\ \sqrt[2]{x^{10} x^1 y^8} \\ \sqrt[2]{x^{10} x^1 y^8} \end{array}$$

$$\begin{array}{c} \textcircled{2}\sqrt{x^{11}y^7z^4} \\ \swarrow \quad \downarrow \quad \searrow \\ \textcircled{2}\sqrt{x^{10}x^1y^6y^1z^4} \\ \hline \textcircled{2}\sqrt{x^{10}x^1y^6y^1z^4} \end{array}$$

$$\begin{array}{c} \textcircled{3}\sqrt{16x^{11}y^7z^4} \\ \swarrow \quad \downarrow \quad \searrow \quad \swarrow \quad \searrow \\ \textcircled{3}\sqrt{8 \cdot 2 \cdot x^9 \cdot x^2 \cdot y^6 \cdot y^1 \cdot z^3 \cdot z^1} \\ \hline \textcircled{3}\sqrt{8 \cdot 2 \cdot x^9 \cdot x^2 \cdot y^6 \cdot y^1 \cdot z^3 \cdot z^1} \end{array}$$

$$\begin{array}{c} \textcircled{3}\sqrt{54x^2y^{12}z^7} \\ \swarrow \quad \downarrow \quad \searrow \quad \swarrow \quad \searrow \\ \textcircled{3}\sqrt{27 \cdot 2 \cdot x^2 \cdot y^{12} \cdot z^6 \cdot z^1} \\ \hline \textcircled{3}\sqrt{27 \cdot 2 \cdot x^2 \cdot y^{12} \cdot z^6 \cdot z^1} \end{array}$$