

- 195** $\sqrt{40}$; $\sqrt{243}$; $\sqrt{125}$; $\sqrt[3]{16}$. $[2\sqrt{10}; 9\sqrt{3}; 5\sqrt{5}; 2\sqrt[3]{2}]$
- 196** $\sqrt[3]{96}$; $\sqrt[3]{81}$; $\sqrt[4]{320}$; $\sqrt[4]{243}$. $[2\sqrt[3]{12}; 3\sqrt[3]{3}; 2\sqrt[4]{20}; 3\sqrt[4]{3}]$
- 197** $\sqrt{\frac{3}{8}}$; $\sqrt{\frac{72}{25}}$; $\sqrt[3]{\frac{8}{81}}$; $\sqrt[3]{\frac{33}{160}}$. $\left[\frac{1}{2}\sqrt{\frac{3}{2}}; \frac{6}{5}\sqrt{2}; \frac{2}{3}\sqrt[3]{\frac{1}{3}}; \frac{1}{2}\sqrt[3]{\frac{33}{20}}\right]$
- 198** $\sqrt[3]{320}$; $\sqrt[3]{375}$; $\sqrt[4]{112}$; $\sqrt[4]{405}$. $[4\sqrt[3]{5}; 5\sqrt[3]{3}; 2\sqrt[4]{7}; 3\sqrt[4]{5}]$
- 199** $\sqrt{5a^8bc^2}$; $\sqrt[3]{6ab^3c^6}$; $\sqrt[4]{\frac{2}{81}x^{12}}$; $\sqrt{2a^2b}$. $\left[a^4c\sqrt{5b}; bc^2\sqrt[3]{6a}; \frac{1}{3}x^3\sqrt[4]{2}; a\sqrt{2b}\right]$
- 200** $\sqrt[3]{a^3 + 3a^2 + 3a + 1}$; $\sqrt[3]{a^6(x - y)^3}$; $\sqrt[3]{3b^6}$. $[a + 1; a^2(x - y); b^2\sqrt[3]{3}]$
- 201** $\sqrt{x^2 + x^2y}$; $\sqrt{4 + 4b^2}$; $\sqrt{x^2y - 3x^2}$. $[x\sqrt{1+y}; 2\sqrt{1+b^2}; x\sqrt{y-3}]$
- 202** $\sqrt{x^6 - 2x^3b^3 + b^6}$; $\sqrt{\frac{3a^2 - 18a + 27}{9b^2x}}$.
- 203** $\sqrt[4]{\frac{a+3}{(a-3)^5}}$; $\sqrt{8(x^5 - 6x^4 + 9x^3)}$. $\left[\frac{1}{a-3}\sqrt[4]{\frac{a+3}{a-3}}; 2x(x-3)\sqrt{2x}\right]$
- 204** $\sqrt[3]{\frac{4}{27}a^3b^6}$; $\sqrt[4]{(a^2 - 1)(a - 1)^3}$. $\left[\frac{1}{3}ab^2\sqrt[3]{4}; (a - 1)\sqrt[4]{a + 1}\right]$
- 205** $\sqrt{4x - 12b}$; $\sqrt[4]{b^4 + b^4x}$; $\sqrt[3]{(2 - x)^2a^6b}$. $[2\sqrt{x-3b}; b\sqrt[4]{1+x}; a^2\sqrt[3]{(2-x)^2b}]$
- 206** $\sqrt{a^2 - \frac{1}{9}}$; $\sqrt{\frac{7a}{25b^2}}$; $\sqrt[4]{x^4 + x^4b^2}$. $\left[\frac{1}{3}\sqrt{9a^2 - 1}; \frac{1}{5b}\sqrt{7a}; x\sqrt[4]{1+b^2}\right]$
- 207** $\sqrt{\frac{a^5x^3}{48}}$; $\sqrt[3]{\frac{a^4(x-1)^5}{27}}$.
- 208** $\sqrt[3]{\frac{54(2x+1)^4}{(x+3)^5}}$; $\sqrt{\frac{(x+2)^5x^3}{27}}$. $\left[\frac{3(2x+1)}{x+3}\sqrt[3]{\frac{2(2x+1)}{(x+3)^2}}; \frac{x(x+2)^2}{3}\sqrt{\frac{(x+2)x}{3}}\right]$
- 209** $\sqrt{\frac{80(a-2)^3a^4}{a^2-4}}$; $\sqrt{\frac{100x^3(x^2-1)^4}{(x-1)^3}}$. $\left[4a^2(a-2)\sqrt{\frac{5}{a+2}}; 10x(x+1)^2\sqrt{x(x-1)}\right]$
- 210** $\sqrt[3]{\frac{(a-1)^7a^4}{81}}$; $\sqrt{\frac{(x^2-2x)(x-2)^2}{(x^2-4x+4)^3}}$.
- 211** $\sqrt{\frac{(x^3+4x^2)^2}{(x^2-16)^3}}$; $\sqrt{\frac{18a^5(x+3)^3}{x^4}}$.

Fattori trasportati fuori dal segno di radice e discussione**ESERCIZIO GUIDA**

212 Trasportiamo fuori dal segno di radice tutti i fattori possibili nei seguenti radicali:

a) $\sqrt{a^6b}$; b) $\sqrt[3]{125a^3b}$; c) $\sqrt[3]{8a^3b^9c^2}$; d) $\sqrt{2a^2 - 4a + 2}$.