

$$b) a^{5/6} \cdot b^{1/2} \cdot \sqrt[3]{a^{-1/2} \cdot b^{-1}} \cdot \sqrt{a^{-1} \cdot b^{2/3}}$$

$$a^{5/6} \cdot b^{1/2} \cdot a^{-1/6} \cdot b^{-1/3} \cdot a^{-1/2} \cdot b^{2/3}$$

$$a^{5/6} \cdot b^{1/2} \cdot a^{-1/6} \cdot b^{-1/3} \cdot a^{-1/2} \cdot b^{2/3}$$

$$(a^{5/6} \cdot a^{-1/6} \cdot a^{-1/2}) \cdot (b^{1/2} \cdot b^{-1/3} \cdot b^{2/3})$$

$$a^{1/6} \cdot b^{1/2} \rightarrow \sqrt[6]{a} \cdot \sqrt{b}$$

OK.

$$a' + a^{1/2} \cdot b^{1/2} - b^{1/2} \cdot a^{1/2} + b'$$

$$a + b + \sqrt[3]{a \cdot b} - \sqrt[3]{a \cdot b} \rightarrow$$

$$a + b$$

$$\frac{b-a}{a+b} \cdot \frac{a+b}{(a^{1/2} - b^{1/2}) \cdot (a^{1/2} + b^{1/2})}$$

$$c) (a^{2/3} + 2^{1/3}) \cdot (a^{2/3} - 2^{1/3})$$

$$(a^{2/3} + 2^{1/3}) \cdot (a^{2/3} - 2^{1/3})$$

$$(a^{2/3} + 2^{1/3}) \cdot (a^{2/3} - 2^{1/3})$$

DISTRIBUIR:

$$a^{2/3} \cdot a^{4/3} - 2^{1/3} \cdot a^{4/3} + a^{2/3} \cdot 2^{2/3} \oplus$$

$$2^{1/3} \cdot a^{4/3} - 2^{2/3} \cdot a^{2/3} + 2^{1/3} \cdot 2^{2/3}$$

$$a^{2/3+4/3} + 2^{1/3+2/3}$$

$$a^{6/3} + 2^{3/3} \rightarrow a^2 + 2 //$$

$$d) \frac{b-a}{a+b} \cdot [a^{1/2} \cdot (a^{1/2} - b^{1/2})^{-1} -$$

$$\left(\frac{a^{1/2} + b^{1/2}}{b^{1/2}} \right)^{-1}] \Rightarrow$$

$$\frac{b-a}{a+b} \cdot \left[\frac{a^{1/2}}{a^{1/2} - b^{1/2}} - \frac{b^{1/2}}{a^{1/2} + b^{1/2}} \right]$$

$$\frac{b-a}{a+b} \cdot \frac{a^{1/2}(a^{1/2} + b^{1/2}) - b^{1/2}(a^{1/2} - b^{1/2})}{(a^{1/2} - b^{1/2})(a^{1/2} + b^{1/2})}$$

$$e) \sqrt{\left[\frac{1}{2} \cdot \left(\frac{a}{b} \right)^{-1/2} - \frac{1}{2} \cdot \left(\frac{b}{a} \right)^{-1/2} \right]^{-2} + 1}$$

$$\sqrt{\left[\frac{1}{2} \cdot \left(\sqrt{\frac{b}{a}} - \sqrt{\frac{a}{b}} \right) \right]^{-2} + 1}$$

$$\sqrt{\left(\frac{1}{2} \right)^{-2} \cdot \left(\sqrt{\frac{b}{a}} - \sqrt{\frac{a}{b}} \right)^{-2} + 1}$$

$$\sqrt{\left(\frac{2}{1} \right)^2 \cdot \left(\frac{1}{\sqrt{\frac{b}{a}} - \sqrt{\frac{a}{b}}} \right)^2 + 1}$$