

$$120. \left[\left(\frac{a^2 - b\sqrt{a}}{\sqrt{a} - \sqrt[3]{b}} + a\sqrt[3]{b} \right) : \left(a + \sqrt[6]{a^3 b^2} \right) - \sqrt[3]{b} \right]^2$$

$$121. \left[\frac{a^2 \sqrt[4]{x} + x\sqrt{a}}{a\sqrt[4]{x} + \sqrt{ax}} - \sqrt{a^2 + x + 2a\sqrt{x}} \right]^4$$

$$122. \left[\frac{x\sqrt{x} - x}{\left(\frac{\sqrt[4]{x^3} - 1}{\sqrt[4]{x} - 1} - \sqrt{x} \right) \left(\frac{\sqrt[4]{x^3} + 1}{\sqrt[4]{x} + 1} - \sqrt{x} \right)} \right]^3$$

$$123. \sqrt{a} \left[\frac{a + \sqrt[4]{a^3 b^2} + b\sqrt[4]{ab^2} + b^2}{(\sqrt[4]{a} + \sqrt{b})^2} - b \right]^{-1} + \frac{1}{a^{-\frac{1}{4}} b^{\frac{1}{2}} - 1}$$

$$124. \frac{\frac{a+x}{\sqrt[3]{a^2 - \sqrt[3]{x^2}}} + \frac{\sqrt[3]{ax^2} - \sqrt[3]{a^2 x}}{\sqrt[3]{a^2 - 2\sqrt[3]{ax} - \sqrt[3]{x^2}}}}{\sqrt[6]{a} - \sqrt[6]{x}} - \sqrt[6]{x}$$

$$125. \frac{1}{a^{\frac{1}{4}} + a^{\frac{1}{8}} + 1} + \frac{1}{a^{\frac{1}{4}} - a^{\frac{1}{8}} + 1} - \frac{2a^{\frac{1}{4}} - 2}{a^{\frac{1}{2}} - a^{\frac{1}{4}} + 1}$$

$$126. \frac{\sqrt{\sqrt{2}-1} \sqrt[4]{3+2\sqrt{2}} + \sqrt[3]{(x+12)\sqrt{x-6x-8}}}{\frac{x-\sqrt{x}}{\sqrt{x}-1} - \sqrt{\sqrt{2}+1} \sqrt[4]{3-2\sqrt{2}}}$$

$$127. \frac{\sqrt{a^3 b} \sqrt[3]{a^4} + \sqrt{a^4 b^3} \sqrt[3]{a}}{(b^2 - ab - 2a^2) \sqrt{ab}} - a^{-\frac{2}{3}} \left(\frac{3a^2}{3b - 6a + 2ab - b^2} : \frac{a+b}{3a-ab} - \frac{ab}{a+b} \right)$$

$$128. \left[\frac{10x^2 + 3ax}{4x^2 - a^2} + \frac{bx - x^2 - ax + ab}{2x + a} : (b - x) - 2 \right] \times \left[\frac{(a+2x)^{-\frac{1}{2}} + (2x-a)^{\frac{1}{2}}}{(4x^2 - a^2)^{-\frac{1}{2}} + 1} \right]^2$$

$$129. \left[\frac{x+4}{2x^2 - 2x - 4} + \frac{x+2}{2(x^2 + 3x + 2)} \right] \sqrt{2x} - \left(\sqrt{2} + \sqrt{x} - \frac{x+6}{\sqrt{x} + \sqrt{2}} \right) : \left(x^{\frac{1}{2}} - 2^{\frac{1}{2}} \right)^2$$

$$130. \frac{(1-x^2)^{-\frac{1}{2}} + 1}{(1+x)^{-\frac{1}{2}} + (1-x)^{\frac{1}{2}}} : \frac{\sqrt{1-x}}{x-2} + (x+1) \left(\frac{1}{x+1} + \frac{4}{x^2 - 4x} - \frac{5}{x^2 - 3x - 4} \right)$$

$$131. \frac{a^2 \sqrt{ab}^{-1} \sqrt[3]{b^2 \sqrt{ab} - 2\sqrt{a^3 b} \sqrt[6]{ab^5}}}{(a^2 - ab - 2b^2) \sqrt[3]{a^5 b}} - \frac{a-3}{a+2b} \times \left[\frac{a+2b}{a^2 + ab + -3a - 3b} - (a-1)(a^2 - 4a + 3)^{-1} \right]$$

$$132. \frac{\sqrt{a\sqrt{ab} - (ab)^{\frac{3}{4}}} : \sqrt{a}}{(a^2 - b^2)a^{-1}} \left(\sqrt[4]{\frac{a}{b}} + \sqrt[4]{\frac{b}{a}} \right) + \frac{b}{a} \left(\frac{2a+2b}{a-4b} + \frac{a+3b}{2a+2b} - \frac{a^2 + 21ab}{2a^2 - 6ab - 8b^2} \right)$$

$$133. \left[\frac{(\sqrt[3]{ab^2 \sqrt{b} - \sqrt[3]{ab} \sqrt{a}})^2}{ab \sqrt[6]{ab}} + 4 \right] : \frac{a\sqrt{b} + b\sqrt{a}}{\sqrt{a} - \sqrt{b}} + \frac{b^2 - 4a^2}{4a} \left(\frac{1}{b^2 + 3ab + 2a^2} - \frac{3}{2a^2 + ab - b^2} \right)$$

$$134. \frac{2(2ab)^{\frac{3}{4}} (a+2b)^{-1}}{\sqrt{a} - \sqrt{2b}} : \frac{\sqrt{2b\sqrt{2ab} + \sqrt[4]{2a^3 b}}}{\sqrt{2ab}} - 6 \left(\frac{a}{6a - 48b} - \frac{2b}{3a - 6b} - \frac{8b^2}{a^2 - 10ab + 16b^2} \right)$$

$$135. \frac{6b+7a}{6b} - \frac{3ay}{2b^2} = 1 - \frac{ay}{b^2 - ab}$$

$$136. \frac{ax-b}{a+b} + \frac{bx+a}{a-b} = \frac{a^2 + b^2}{a^2 - b^2}$$

$$137. \frac{x-a-b}{c} + \frac{x-b-c}{a} + \frac{x-c-a}{b} = 3$$

$$138. \frac{c+3z}{4c^2+6cd} - \frac{c-2z}{9d^2-6cd} = \frac{2c+z}{4c^2-9d^2}$$

$$139. \frac{x-1}{n-1} + \frac{2n^2(1-x)}{n^4-1} = \frac{2x-1}{1-n} - \frac{1-x}{1+n}$$

$$140. \frac{3ab+1}{a}x = \frac{3ab}{a+1} + \frac{(2a+1)x}{a(a+1)^2} + \frac{a^2}{(a+1)^3}$$

$$141. \frac{3abc}{a+b} + \frac{a^2 b^2}{(a+b)^3} + \frac{(2a+b)b^2 x}{a(a+b)^2} = 3cx + \frac{bx}{a}$$

$$142. \frac{x+m}{a+b} - \frac{ax}{(a+b)^2} = \frac{am}{a^2-b^2} - \frac{b^2 x}{a^3-ab^2+a^2 b-b^3}$$

$$143. \frac{m}{z} + \frac{z}{m} + \frac{m(z-m)}{z(z+m)} - \frac{z(z+m)}{m(z-m)} = \frac{mz}{m^2-z^2} - 2$$

$$144. \frac{a^2+x}{b^2-x} - \frac{a^2-x}{b^2+x} = \frac{4abx+2a^2-2b^2}{b^4-x^2}$$

$$145. \frac{an}{a-x} + \frac{(a+n)(anx+nx^2+x^3)}{x^3+nx^2-a^2x-a^2n} = \frac{ax}{n+x} + \frac{nx^2}{x^2-a^2}$$

$$146. \left(\frac{a+1}{ax+1} + \frac{x+1}{x+a-1} - 1 \right) : \left[\frac{a+1}{(x+a-1)a} - \frac{a(x+1)}{ax+1} + 1 \right] = \frac{x}{2}$$

$$147. \frac{a+x}{a^2+ax+x^2} - \frac{a-x}{ax-x^2-a^2} = \frac{3a}{x(a^2+a^2x^2+x^4)}$$

$$148. a(\sqrt{x}-a) - b(\sqrt{x}-b) + a+b = \sqrt{x}$$

$$149. \frac{1}{a} + \frac{1}{a+x} + \frac{1}{a+2x} = 0$$

$$150. \frac{2x}{x+b} - \frac{x}{b-x} = \frac{b^2-a^2}{4(x^2-b^2)}$$

$$151. 1 - \frac{2a}{x-a} = \frac{b^2-a^2}{a^2+x^2-2ax}$$

$$152. \frac{x^2}{ab-2b^2} = \frac{a-b}{ac^2-2bc^2} + \frac{x}{bc}$$

$$153. \frac{x}{x+a} + \frac{2x}{x-a} = \frac{5a^2}{4(x^2-a^2)}$$

$$154. \frac{x^2+1}{n^2x-2n} - \frac{1}{2-nx} = \frac{x}{n}$$

$$155. \frac{a-x^2}{(a-x)^2} - \frac{1}{a} = \frac{a-1}{a^3-ax(2a-x)}$$

$$156. 1 - \frac{2b}{x-a} = \frac{a^2-b^2}{a^2+x^2-2ax}$$

$$157. \frac{1}{2n+nx} - \frac{1}{2x-x^2} = \frac{2(n+3)}{x^3-4x}$$

$$158. \frac{a+x-2n}{2a-n} - \frac{a-2n}{x} = 1$$

$$159. \frac{a}{nx-x} - \frac{a-1}{x^2-2nx^2+n^2x^2} = 1$$

$$160. \frac{\left(\frac{a-x}{x} \right)^2 - \left(\frac{a}{a+b} \right)^2}{x^2+a^2-2ax} = \frac{5}{9x^2}$$

$$161. \frac{x+x^2}{1-x^2} : \frac{1-a^2}{(1+ax)^2 - (a+x)^2} = \frac{ab}{(b-a)^2}$$