

- 18 $(\sqrt{2} + \sqrt{10})^2; (\sqrt{3} - \sqrt{5})^2; (\sqrt{7} + \sqrt{2})^2$ [12 + 2\sqrt{20}; 8 - 2\sqrt{15}; 9 + 2\sqrt{14}]
- 19 $\sqrt{6} : \sqrt{2} + \sqrt{\frac{3}{2}} : \frac{1}{\sqrt{2}} + \sqrt[4]{9}; (\sqrt{8} : \sqrt{2} + \sqrt[4]{4})^2 + (\sqrt{2} + \sqrt{2} + \sqrt{2})^2$ [3\sqrt{3}; 24 + 4\sqrt{2}]
- 20 $(\sqrt{3} + \sqrt{2})^2 + (1 - \sqrt{6})^2; [(\sqrt{5} + \sqrt{2})^2 - 7] : \sqrt{10}$ [12; 2]
- 21 $(\sqrt{6} - \sqrt{5})^2 - (\sqrt{2} - \sqrt{15})^2; (\sqrt{3} + \sqrt{2})(\sqrt{2} - 2\sqrt{3}) - (\sqrt{3} - \sqrt{2})^2$ [-6; \sqrt{6} - 9]
- 22 $(\sqrt{18} : \sqrt{2} + \sqrt[6]{8})^2 + (1 - 3\sqrt{2})^2; [(2\sqrt{3} + 3\sqrt{5})^2 - 57] : \frac{4}{\sqrt{15}}$ [30; 45]
- 23 $(\sqrt{15} - \sqrt{55} + \sqrt{180}) : \sqrt{5}; (\sqrt{3} + \sqrt{27} - \sqrt{75}) : \sqrt{3}$ [\sqrt{3} - \sqrt{11} + 6; -1]
- 24 $\sqrt{\frac{\sqrt{128}}{\sqrt{8}} + \left(\frac{\sqrt{60}}{\sqrt{6}}\right)^2} - \sqrt{50} \cdot \sqrt{2} + \left(\frac{\sqrt[3]{10}}{\sqrt[3]{2}}\right)^3$ [3]
- 25 $(\sqrt{2} + \sqrt{3})(4 + \sqrt{3}) - (\sqrt{3} - 1)(\sqrt{2} + 1)$ [5\sqrt{2} + 3\sqrt{3} + 4]
- 26 $(\sqrt{8} + \sqrt{18} - \sqrt{50}) \cdot \sqrt{2} - 4\sqrt{3} : (-2\sqrt{3})$ [2]
- 27 $\frac{1}{6} [6 + (2\sqrt{5} - 3\sqrt{2})^2 - (\sqrt{21} + 1)(\sqrt{21} - 1)] + 2\sqrt{(\sqrt{10})^2}$ [4]
- 28 $\left(\sqrt{12} \cdot \sqrt{3} + \sqrt{10} \cdot \sqrt{\frac{5}{2}}\right) : \sqrt{121}; \sqrt{\sqrt{2}(\sqrt{8} + \sqrt{18})} : 5$ [1; \sqrt{2}]
- 29 $(\sqrt[4]{4} + \sqrt{2} - 1)(2\sqrt{2} + 1) + 2\sqrt{3}(\sqrt{2} - 2\sqrt{3})$ [2\sqrt{6} - 5]
- 30 $\sqrt{2} \cdot \sqrt{8} + \sqrt{12} \cdot \sqrt{18} \cdot \sqrt{6} - (\sqrt{39} - 1)^2; (\sqrt{3} \cdot \sqrt{75} - \sqrt{5} \cdot \sqrt{15} \cdot \sqrt{3} + \sqrt{3})^2$ [2\sqrt{39}; 3]
- 31 $(2\sqrt{5} + \sqrt{3})(2\sqrt{3} - \sqrt{5}) + (\sqrt{5} - \sqrt{3})^2; [\sqrt{2}(\sqrt{3} + \sqrt{5})^2 - 8\sqrt{2}] : \sqrt{6} : \sqrt{2}$ [4 + \sqrt{15}; 2\sqrt{\frac{5}{2}}]
- 36 $(\sqrt{3} + 2\sqrt{3} + 2\sqrt[4]{9}) : \left(\frac{5}{2} \sqrt{3}\right) : \sqrt[6]{(-1)^2}$ [2]
- 37 $\sqrt{\frac{10}{3}} \cdot \frac{\sqrt{6}}{\sqrt{35}} \cdot \sqrt{7} + \left(\frac{1}{\sqrt{3}}\right)^2 \cdot \sqrt{(-1,5)^2} \cdot \left(\frac{\sqrt{6}}{\sqrt{5}}\right)^2$ [13/5]
- 38 $(\sqrt[3]{32} \cdot \sqrt[3]{2} + \sqrt[3]{-56} : \sqrt[3]{7} + \sqrt{3})(2 - \sqrt{3})$ [1]
- 39 $(\sqrt[5]{25} \cdot \sqrt[5]{-125} + \sqrt[3]{-63} : \sqrt[3]{7} \cdot \sqrt[3]{-3} + \sqrt{2})(\sqrt{2} + 2)$ [-2]
- 40 $\sqrt{\frac{8}{7}} \cdot \sqrt{\frac{14}{9}} \cdot \sqrt{\left(-\frac{3}{2}\right)^2} - \frac{1}{\sqrt{3}} \cdot \frac{\sqrt[4]{9}}{2} \cdot \sqrt{\left(-\frac{5}{2}\right)^2}$ [3/4]
- 41 $[(4\sqrt{3} - 3\sqrt{2})(1 - \sqrt{3}) + 3\sqrt{2}(1 - \sqrt{3})](3 + \sqrt{3})$ [-24]
- 42 $(\sqrt{2} + 3\sqrt{5})(3\sqrt{2} - \sqrt{5}) + (\sqrt{10} - 4)^2 - (\sqrt{15} - \sqrt{2})^2$ [2\sqrt{30}]
- 43 $\left[\sqrt{\frac{\sqrt{32}}{\sqrt{2}}} + \sqrt{50} \cdot \sqrt{2} - \left(\frac{\sqrt[3]{10}}{\sqrt[3]{2}}\right)^3 \cdot \sqrt[6]{9}\right] \frac{\sqrt[3]{9}}{3}$ [4\sqrt[3]{9} - 5]
- 44 $\left[\sqrt{\frac{\sqrt{75}}{\sqrt{3}}} + \left(\sqrt[4]{\frac{\sqrt{6}}{\sqrt{2}}}\right)^4\right] : \sqrt{5} \cdot \left(1 - \sqrt{\frac{3}{5}}\right)$ [2/5]
- 96 $\sqrt{10^8 \cdot 3}; \sqrt{5^6 \cdot 2}; \sqrt[3]{7^{18} \cdot 3}; \sqrt[3]{5^{21} \cdot 2}$ [10^4 \cdot \sqrt{3}; 125\sqrt{2}; 7^6 \cdot \sqrt[3]{3}; 5^7 \cdot \sqrt[3]{2}]
- 97 $\sqrt{7^7 \cdot 2}; \sqrt{6^6 \cdot 3}; \sqrt[3]{4^9 \cdot 3}; \sqrt[4]{2^{12} \cdot 3}$ [343\sqrt{14}; 216\sqrt{3}; 64\sqrt[3]{3}; 8\sqrt[3]{3}]
- 98 $\sqrt[3]{3^{15} \cdot 2}; \sqrt[6]{4^{24} \cdot 3}; \sqrt{3^8 \cdot 5^6 \cdot 2}$ [27\sqrt[3]{2}; 256\sqrt[6]{3}; 3^4 \cdot 5^3 \cdot \sqrt{2}]
- 99 $\sqrt[3]{3^{12} \cdot 2^{18} \cdot 5}; \sqrt[4]{32 \cdot 5^{24}}; \sqrt[8]{2^{16} \cdot 3^{32} \cdot 5}$ [3^4 \cdot 2^6 \cdot \sqrt[3]{5}; 2 \cdot 5^6 \cdot \sqrt[4]{2}; 324\sqrt[3]{5}]
- 100 $\sqrt{3^7 \cdot 2^9 \cdot 5^4}; \sqrt[3]{2^{10} \cdot 3^6 \cdot 5^{11}}; \sqrt[4]{3^6 \cdot 2^{13}}$ [10.800\sqrt{6}; 9000\sqrt[3]{50}; 24\sqrt[4]{18}]

- 111 $2\sqrt{2} + \sqrt{18} - \sqrt{8} + \sqrt{50}; 5\sqrt{27} - \sqrt{75}$ $[8\sqrt{2}; 10\sqrt{3}]$
- 112 $\sqrt{72} + \sqrt{8} - \sqrt{18}; \sqrt{90} - \sqrt{40}$ $[5\sqrt{2}; \sqrt{10}]$
- 113 $\sqrt{125} + \sqrt{180} - 3\sqrt{20}; 2\sqrt{5} - \sqrt{45}$ $[5\sqrt{5}; -\sqrt{5}]$
- 114 $\sqrt{32} + 2\sqrt{18} - 3\sqrt{50}; \sqrt{243} - \sqrt{12}$ $[-5\sqrt{2}; 7\sqrt{3}]$
- 115 $\sqrt{125} + \sqrt{45} - \sqrt{20}; 2\sqrt{45} - 3\sqrt{20} + \sqrt{500}$ $[6\sqrt{5}; 10\sqrt{5}]$
- 116 $\sqrt{\frac{9}{8}} - \sqrt{\frac{49}{18}} + \sqrt{\frac{81}{50}}; \sqrt{\frac{3}{4}} - \sqrt{\frac{27}{25}} + \sqrt{\frac{75}{36}}$ $\left[\frac{29}{30}\sqrt{\frac{1}{2}}; \frac{11}{15}\sqrt{3}\right]$
- 117 $2\sqrt[3]{3} + \sqrt[3]{81} - 4\sqrt[3]{3}; \sqrt[3]{16} - 4\sqrt[3]{250} + 3\sqrt[3]{54}$ $[\sqrt[3]{3}; -9\sqrt[3]{2}]$
- 118 $(5\sqrt[3]{16} + \sqrt[3]{250} - \sqrt[3]{54}) \cdot \sqrt[3]{4}; (\sqrt[3]{24} - \sqrt[3]{81} + 2\sqrt[3]{3})^3$ $[24; 3]$
- 119 $5\sqrt[3]{16} - \sqrt[3]{54} + \sqrt[3]{250} + \sqrt[4]{162} - \sqrt[4]{32}$ $[12\sqrt[3]{2} + \sqrt[4]{2}]$
- 120 $2\sqrt{3} + \sqrt{\frac{3}{4}} - 2\sqrt{32} + 3\sqrt{27} - \sqrt{18} + 3\sqrt{\frac{2}{9}}$ $\left[\frac{23}{2}\sqrt{3} - 10\sqrt{2}\right]$
- 121 $[\sqrt{32} + 2\sqrt{18} + 3\sqrt{50} - (\sqrt{125} + \sqrt{180} - 3\sqrt{20})] : 5$ $[5\sqrt{2} - \sqrt{5}]$
- 122 $\sqrt{147} - \sqrt{45} - \sqrt{108} + 5\sqrt{288} - 3\sqrt{722}$ $[\sqrt{3} - 3\sqrt{5} + 3\sqrt{2}]$
- 123 $2\sqrt[4]{243} - 3\sqrt[4]{3} + 3\sqrt[4]{48} - \sqrt[4]{1875}$ $[4\sqrt[4]{3}]$
- 124 $5\sqrt[3]{16} - \sqrt[3]{54} + \sqrt[4]{162} - \sqrt[4]{32} + \sqrt[3]{250}$ $[12\sqrt[3]{2} + \sqrt[4]{2}]$
- 125 $5\sqrt[3]{108} - 4\sqrt[3]{40} + 3\sqrt[3]{16} - \sqrt[3]{250} + \sqrt[3]{320}$ $[\sqrt[3]{2} - 4\sqrt[3]{5} + 15\sqrt[3]{4}]$
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- 157 $(3\sqrt{2})^2; (2\sqrt{5})^2; (\sqrt{7})^3; (\sqrt{2})^3$ $[18; 20; 7\sqrt{7}; 2\sqrt{2}]$
- 158 $(5\sqrt{2})^2; (3\sqrt{6})^2; (\sqrt[3]{2})^2; (\sqrt[4]{2})^2$ $[50; 54; \sqrt[3]{4}; \sqrt{2}]$
- 159 $\left(\frac{1}{2}\sqrt{2}\right)^2; \left(\frac{1}{3}\sqrt{3}\right)^2; \left(\frac{1}{3}\sqrt{3}\right)^3; \left(\frac{2}{5}\sqrt[4]{\frac{5}{2}}\right)^2$ $\left[\frac{1}{2}; \frac{1}{3}; \frac{1}{9}\sqrt{3}; \sqrt{\frac{8}{125}}\right]$
- 160 $(2\sqrt{3})^3; (3\sqrt{2})^3; \left(\frac{2}{3}\sqrt[4]{\frac{3}{2}}\right)^5$ $\left[24\sqrt{3}; 54\sqrt{2}; \frac{16}{81}\sqrt[4]{\frac{3}{2}} = \frac{8}{27}\sqrt[4]{\frac{8}{27}}\right]$
- 161 $(\sqrt[3]{2})^6; \left(\frac{1}{2}\sqrt{2}\right)^4; (2\sqrt[3]{3})^5$ $\left[2\sqrt{2}; \frac{1}{4}; 96\sqrt[3]{9}\right]$
- 162 $(\sqrt[5]{2})^7; \left(\frac{1}{3}\sqrt[5]{3}\right)^6; \left(\frac{1}{2}\sqrt[3]{4}\right)^5$ $\left[2\sqrt[5]{4}; \frac{1}{3^5}\sqrt[5]{3}; \frac{1}{4}\sqrt[3]{2}\right]$
- 163 $(\sqrt[3]{4})^7; \left(-\frac{2}{3}\sqrt[3]{\frac{3}{2}}\right)^4; \left(\frac{1}{5}\sqrt[5]{5}\right)^5$ $\left[16\sqrt[3]{4}; \frac{8}{27}\sqrt[3]{\frac{3}{2}} = \frac{4}{9}\sqrt[3]{\frac{4}{9}}; \frac{\sqrt[5]{5}}{5^4} = \frac{1}{125}\sqrt[4]{\frac{1}{125}}\right]$
- 164 $(\sqrt{3} \cdot \sqrt[3]{12})^2; (3\sqrt{2})^5 \cdot \frac{\sqrt{2}}{2}; \left(\sqrt[3]{2} \cdot \sqrt[5]{(-2)^3}\right)^{10}$ $[6\sqrt[3]{18}; 972; 512\sqrt[3]{2}]$
- 165 $(2 + \sqrt{2})^3; (1 - \sqrt{3})^3; (\sqrt{2} + 2\sqrt{3})^3$ $[20 + 14\sqrt{2}; 10 - 6\sqrt{3}; 38\sqrt{2} + 36\sqrt{3}]$
- 166 $(\sqrt{2} + \sqrt{5})^3; (\sqrt{7} - 1)^3; (3\sqrt{2} - \sqrt{5})^3$ $[17\sqrt{2} + 11\sqrt{5}; 10\sqrt{7} - 22; 99\sqrt{2} - 59\sqrt{5}]$
- 167 $(\sqrt[3]{2} + 1)^2; (\sqrt[3]{2} + 1)^3$ $[\sqrt[3]{4} + 2\sqrt[3]{2} + 1; 3(1 + \sqrt[3]{2} + \sqrt[3]{4})]$

- 174 $(\sqrt[3]{2} + \sqrt[3]{3})^2$; $(\sqrt[3]{2} + \sqrt[3]{3})^3$ $[\sqrt[3]{4} + \sqrt[3]{9} + 2\sqrt[3]{6}; 5 + 3\sqrt[3]{12} + 3\sqrt[3]{18}]$
- 175 $(\sqrt[3]{2} + \sqrt{2})^2$; $(\sqrt{5} + \sqrt[3]{3})^2$ $[\sqrt[3]{4} + 2\sqrt[3]{32} + 2; 5 + \sqrt[3]{9} + 2\sqrt[3]{1125}]$
- 176 $(\sqrt{2} + \sqrt[3]{3})^3 - 3\sqrt{6} \cdot \sqrt[6]{3}$ $[2\sqrt{2} + 6\sqrt[3]{3} + 3]$
- 177 $(\sqrt[3]{2} + \sqrt{3})^3$ $[2 + 3\sqrt[6]{432} + 9\sqrt[3]{2} + 3\sqrt{3}]$
- 178 $(2\sqrt{2} + \sqrt[3]{3})^3$ $[16\sqrt{2} + 24\sqrt[3]{3} + 6\sqrt[6]{648} + 3]$
- 179 $(1 + \sqrt[6]{2})^2$; $(1 + \sqrt[6]{2})^3$ $[1 + 2\sqrt[3]{2} + \sqrt[6]{2}; 1 + 3\sqrt[3]{2} + 3\sqrt[6]{2} + \sqrt{2}]$
- 180 $(\sqrt{a} + \sqrt{b})^3$ $[a\sqrt{a} + 3a\sqrt{b} + 3b\sqrt{a} + b\sqrt{b} \text{ per } a \geq 0, b \geq 0]$
- 181 $(\sqrt[3]{a} + \sqrt[3]{b})^2$; $(\sqrt[3]{a} + \sqrt[3]{b})^3$ $[\sqrt[3]{a^2} + 2\sqrt[3]{ab} + \sqrt[3]{b^2}; a + 3\sqrt[3]{a^2b} + 3\sqrt[3]{ab^2} + b]$
- 182 $(1 + \sqrt[6]{2})^2(1 - \sqrt[6]{2})^2 = [(1 + \sqrt[6]{2})(1 - \sqrt[6]{2})]^2 = \dots$ $[1 + \sqrt[3]{4} - 2\sqrt[6]{2}]$
- 183 $(\sqrt[3]{2} + \sqrt[6]{3})^3(\sqrt[3]{2} - \sqrt[6]{3})^3$ $[2\sqrt{2} - 6\sqrt[3]{3} + 3\sqrt[6]{648} - 3]$
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- 210 $\frac{1}{\sqrt{2}}$; $\frac{1}{3\sqrt{3}}$; $\frac{10}{\sqrt{5}}$; $\frac{2}{\sqrt{7}}$; $\frac{9}{\sqrt{3}}$ $[\frac{\sqrt{2}}{2}; \frac{\sqrt{3}}{9}; 2\sqrt{5}; \frac{2\sqrt{7}}{7}; 3\sqrt{3}]$
- 211 $\frac{1}{2\sqrt{3}}$; $\frac{20}{3\sqrt{5}}$; $\frac{2}{3\sqrt{2}}$; $\frac{4}{5\sqrt{6}}$; $\frac{6}{7\sqrt{3}}$ $[\frac{\sqrt{3}}{6}; \frac{4\sqrt{5}}{3}; \frac{\sqrt{2}}{3}; \frac{2\sqrt{6}}{15}; \frac{2\sqrt{3}}{7}]$
- 212 $\frac{1}{\sqrt{12}}$; $\frac{2}{\sqrt{27}}$; $\frac{3}{\sqrt{8}}$; $\frac{10}{\sqrt{18}}$; $\frac{5}{\sqrt{125}}$ $[\frac{\sqrt{3}}{6}; \frac{2}{9}\sqrt{3}; \frac{3}{4}\sqrt{2}; \frac{5}{3}\sqrt{2}; \frac{\sqrt{5}}{5}]$
- 213 $\frac{2 + \sqrt{2}}{\sqrt{2}}$; $\frac{3 + \sqrt{3}}{\sqrt{3}}$; $\frac{2 - \sqrt{2}}{2\sqrt{2}}$; $\frac{3\sqrt{5} - 5}{\sqrt{15}}$ $[\sqrt{2} + 1; \sqrt{3} + 1; \frac{\sqrt{2} - 1}{2}; \frac{3\sqrt{3} - \sqrt{15}}{3}]$
- 214 $\frac{\sqrt{3} + 3\sqrt{2}}{2\sqrt{2}}$; $\frac{\sqrt{3} - 3}{2\sqrt{3}}$; $\frac{\sqrt{6} + 3\sqrt{3}}{\sqrt{12}}$ $[\frac{\sqrt{6} + 6}{4}; \frac{1 - \sqrt{3}}{2}; \frac{\sqrt{2} + 3}{2}]$
- 215 $\frac{\sqrt{6} - \sqrt{8}}{\sqrt{2}}$; $\frac{\sqrt{15} + \sqrt{10}}{\sqrt{5}}$; $\frac{\sqrt{24} + \sqrt{40}}{\sqrt{8}}$ $[\sqrt{3} - 2; \sqrt{3} + \sqrt{2}; \sqrt{3} + \sqrt{5}]$
- 216 $\frac{9 + \sqrt{3}}{\sqrt{3}}$; $\frac{3 - \sqrt{3}}{\sqrt{3}}$; $\frac{\sqrt{12} - \sqrt{6}}{\sqrt{6}}$ $[3\sqrt{3} + 1; \sqrt{3} - 1; \sqrt{2} - 1]$
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- 226 $\frac{1}{\sqrt{3} + \sqrt{2}}$; $\frac{1}{\sqrt{3} - \sqrt{2}}$; $\frac{1}{\sqrt{3} - 2}$; $\frac{1}{3 - \sqrt{2}}$ $[\sqrt{3} - \sqrt{2}; \sqrt{3} + \sqrt{2}; -(\sqrt{3} + 2); \frac{3 + \sqrt{2}}{7}]$
- 227 $\frac{9}{\sqrt{5} - \sqrt{2}}$; $\frac{6}{3 - \sqrt{3}}$; $\frac{12}{\sqrt{7} + 1}$; $\frac{5}{\sqrt{7} + \sqrt{2}}$ $[3(\sqrt{5} + \sqrt{2}); 3 + \sqrt{3}; 2(\sqrt{7} - 1); \sqrt{7} - \sqrt{2}]$
- 228 $\frac{2 + \sqrt{3}}{2 - \sqrt{3}}$; $\frac{\sqrt{2} + \sqrt{3}}{\sqrt{3} - \sqrt{2}}$; $\frac{\sqrt{7} - \sqrt{3}}{\sqrt{7} + \sqrt{3}}$ $[7 + 4\sqrt{3}; 5 + 2\sqrt{6}; \frac{5 - \sqrt{21}}{2}]$
- 229 $\frac{\sqrt{5} + 2}{\sqrt{5} - 2}$; $\frac{\sqrt{7} - 1}{\sqrt{7} + 1}$; $\frac{9\sqrt{11} - 9\sqrt{2}}{\sqrt{11} + \sqrt{2}}$ $[9 + 4\sqrt{5}; \frac{4 - \sqrt{7}}{3}; 13 - 2\sqrt{22}]$
- 230 $\frac{11}{3\sqrt{5} - 2\sqrt{3}}$ (il fattore razionalizzante è $3\sqrt{5} + 2\sqrt{3}$) $[\frac{3\sqrt{5} + 2\sqrt{3}}{3}]$
- 231 $\frac{41}{2 - 3\sqrt{5}}$; $\frac{12}{2\sqrt{3} + 3\sqrt{2}}$ $[-(2 + 3\sqrt{5}); 2(3\sqrt{2} - 2\sqrt{3})]$
- 232 $\frac{14}{3\sqrt{5} + \sqrt{3}}$; $\frac{7}{2\sqrt{5} - \sqrt{6}}$ $[\frac{3\sqrt{5} - \sqrt{3}}{3}; \frac{2\sqrt{5} + \sqrt{6}}{2}]$

- 245 $\sqrt{7+2\sqrt{6}}$; $\sqrt{8-2\sqrt{7}}$; $\sqrt{11+2\sqrt{10}}$ $[\sqrt{6}+1; \sqrt{7}-1; \sqrt{10}+1]$
- 246 $\sqrt{3-\sqrt{5}}$; $\sqrt{9+\sqrt{17}}$; $\sqrt{10-\sqrt{51}}$ $[\sqrt{\frac{5}{2}}-\sqrt{\frac{1}{2}}; \sqrt{\frac{17}{2}}+\sqrt{\frac{1}{2}}; \sqrt{\frac{17}{2}}-\sqrt{\frac{3}{2}}]$
- 247 $\sqrt{4+\sqrt{7}}$; $\sqrt{11-\sqrt{21}}$; $\sqrt{7+\sqrt{13}}$ $[\sqrt{\frac{7}{2}}+\sqrt{\frac{1}{2}}; \sqrt{\frac{21}{2}}-\sqrt{\frac{1}{2}}; \sqrt{\frac{13}{2}}+\sqrt{\frac{1}{2}}]$
- 248 $\sqrt{11+\sqrt{57}}$; $\sqrt{4-2\sqrt{3}}$; $\sqrt{31+\sqrt{61}}$ $[\sqrt{\frac{19}{2}}+\sqrt{\frac{3}{2}}; \sqrt{3}-1; \sqrt{\frac{61}{2}}+\sqrt{\frac{1}{2}}]$
- 249 $\sqrt{12+\sqrt{23}}$; $\sqrt{13+2\sqrt{22}}$; $\sqrt{20+5\sqrt{7}}$ $[\sqrt{\frac{23}{2}}+\sqrt{\frac{1}{2}}; \sqrt{11}+\sqrt{2}; \sqrt{\frac{35}{2}}+\sqrt{\frac{5}{2}}]$
- 250 $\sqrt{16+2\sqrt{15}}$; $\sqrt{21-3\sqrt{13}}$; $\sqrt{32+3\sqrt{7}}$ $[\sqrt{15}+1; \sqrt{\frac{39}{2}}-\sqrt{\frac{3}{2}}; 3\sqrt{\frac{7}{2}}+\sqrt{\frac{1}{2}}]$

- 256 $[(\sqrt{3}+\sqrt{2})(1-\sqrt{2})+(\frac{1}{2}\sqrt{2}+\sqrt{3})^2-\frac{3}{2}](\sqrt{3}-\sqrt{2})$ [1]
- 257 $[(1+\sqrt{6})^2-(\sqrt{3}-\sqrt{2})(2\sqrt{3}+3\sqrt{2})](\sqrt{6}-7)+(-2\sqrt[3]{-5})^3$ [-3]
- 258 $\frac{(\sqrt{7}-1)(\sqrt{7}+1)}{2\sqrt{3}-2\sqrt{2}} \cdot [(2+\sqrt{3})^2-(\sqrt{2}+2)^2-1]$ [12]
- 259 $\frac{\sqrt{5}-1}{\sqrt{5}+1} \cdot \left[\frac{1-4\sqrt{3}}{2} + (\sqrt{3}-1)(\sqrt{3}+1) - (\sqrt{3}-1)^2 \right] \cdot \frac{4}{3-\sqrt{5}}$ [-3]
- 260 $(\sqrt{4+\sqrt{12}}-\sqrt{12})(\sqrt{3}-1)+(1-\sqrt{3})^2$ [0]
- 261 $(2\sqrt{\sqrt{32}}-\sqrt{7-2\sqrt{6}}-4\sqrt{2\sqrt{2}}:\sqrt[4]{4}) \cdot (\sqrt{6}+1)$ [-5]
- 262 $[\sqrt[3]{8}:\sqrt{2}+\sqrt{\frac{1}{2}\sqrt[4]{2}} \cdot \sqrt[3]{128}+\sqrt[8]{(-2)^4}]^3$ [54\sqrt{2}]
- 263 $\sqrt{\frac{1}{3}\sqrt[4]{3}} \cdot \sqrt[8]{81} \cdot \sqrt[4]{3\sqrt{3}} \cdot \frac{\sqrt{3}}{6+3\sqrt{3}}; \sqrt[4]{9(1+\sqrt{2})^3(5\sqrt{2}-7)}+\sqrt[8]{81}$ [2-\sqrt{3}; 2\sqrt{3}]
- 264 $\left(\frac{\sqrt{15}+\sqrt{10}}{2\sqrt{3}+2\sqrt{2}}+\frac{\sqrt{5}}{2}+1\right)^2; \left(\frac{\sqrt{6}+\sqrt{2}}{\sqrt{3}+1}-\frac{\sqrt{6}}{\sqrt{3}-2}\right) \cdot \frac{1}{\sqrt{3}-2}$ [6+2\sqrt{5}; -14\sqrt{2}-8\sqrt{6}]
- 265 $[3(\sqrt[3]{2}+1)^2+(\sqrt[3]{2}-1)^3-3(1+\sqrt[3]{2})(1-\sqrt[3]{2})-1] \cdot \frac{(\sqrt{2}-1)(\sqrt{2}+1)}{\sqrt[3]{54}}$ [4]
- 266 $\left[\frac{3\sqrt{12}-3\sqrt{2}}{\sqrt{18}}+\sqrt{\left(\frac{3}{2}\right)^2} \cdot (\sqrt{6}-2)\right] \cdot \frac{1}{(\sqrt{2}-2)^2}$ [3+2\sqrt{2}]
- 267 $\frac{(3\sqrt{2}+2\sqrt{12}-\sqrt{6}) \cdot \sqrt{12}-24}{\sqrt{3}-1}; \sqrt{\frac{\sqrt{18}+\sqrt{32}-\sqrt{8}}{\sqrt{6}-\sqrt{2}}+\frac{1}{1+\sqrt{3}}-\sqrt{3}+2} \cdot \frac{1}{\sqrt{(1-\sqrt{3})^2}}$ [6\sqrt{2}; 2+\sqrt{3}]
- 268 $\frac{(\sqrt{15}-\sqrt{20}+\sqrt{45})\sqrt{5}}{2\sqrt{5}(2\sqrt{5}+\sqrt{3})-\sqrt{3}(2\sqrt{5}+5\sqrt{3})}$ [\sqrt{3}+1]
- 269 $\left(\sqrt{\frac{125}{3}}:\sqrt{\frac{5}{27}}+\frac{\sqrt{20}}{\sqrt{45}}+\frac{\sqrt{8}}{\sqrt{18}}\right) \cdot \sqrt{98}$ [7/6\sqrt{2}]

270 $\frac{(-\sqrt{3})^2(\sqrt{5} + \sqrt{54}) - \sqrt{3}(\sqrt{162} + \sqrt{(-2)^2})}{\sqrt{5} - \sqrt{3}}$ $\left[\frac{9 + \sqrt{15}}{2}\right]$

271 $\frac{3\sqrt{8} + \sqrt{125} - 2\sqrt{18} + 4\sqrt{50} - \sqrt{45}}{\sqrt{5} + 10\sqrt{2}}$ [2]

272 $[(2\sqrt{5} - 3\sqrt{10})^2 - (2\sqrt{2} + 1)^2 + (\sqrt{3} - \sqrt{6})^2](11 + 7\sqrt{2})$ [230]

273 $(2 + \sqrt{3})\sqrt{7 - 4\sqrt{3}} + (1 - \sqrt{2})\sqrt{3 + 2\sqrt{2}}$ [0]

274 $(\sqrt{2}\sqrt{5})^2 + (2 + \sqrt{5})^2 + (3 - \sqrt{5})^2 + (\sqrt{7} - 7\sqrt{2})(\sqrt{7} + 7\sqrt{2})$ [-68]

275 $\sqrt[3]{(2 - \sqrt{2})(2 + \sqrt{2})} + \sqrt[4]{\sqrt{26} - 2\sqrt{2}} \cdot \sqrt[4]{\sqrt{26} + 2\sqrt{2}}$ $[\sqrt[3]{2} + \sqrt[4]{18}]$

276 $\frac{\sqrt{6} + 4\sqrt{3}}{\sqrt{10} + 4\sqrt{5}} \left(\frac{2}{\sqrt{5}} + \frac{1}{\sqrt{5}}\right) : \frac{\sqrt{27}}{10}$ [2]

277 $\left(\frac{1}{3} + \frac{1}{2\sqrt{3}} - \frac{1}{\sqrt{3} - 3}\right) \cdot \frac{5 - 2\sqrt{3}}{3}$ $\left[\frac{13}{18}\right]$

278 $\frac{\sqrt[3]{2 + \sqrt{3}} \cdot \sqrt[9]{(2 - \sqrt{3})^3} + \sqrt{5} - 1}{\sqrt{5} - 2} + \frac{1}{\sqrt{5} + 2}$ $[3\sqrt{5} + 3]$

279 $\frac{(3\sqrt[3]{64} - 2\sqrt[4]{4} - 4)(\sqrt{8} + 2)}{8} + \frac{(1 + \sqrt{2})^2(3 - 2\sqrt{2})}{2}$ $\left[\frac{3}{2}\right]$

280 $\left[\left(\frac{1}{\sqrt{5} + 1} - \frac{1}{\sqrt{5} - 1}\right) : \frac{\sqrt{8}}{5} + \frac{1}{\sqrt{32}}\right]^3 - \frac{\sqrt{2}}{4}$ $\left[-\frac{\sqrt{2}}{2}\right]$

Equazioni

332 $\sqrt{2}x = \sqrt{8}; \quad \sqrt{2}x = \sqrt{6}; \quad x + \sqrt{3} = 2(x + \sqrt{3})$ $[2; \sqrt{3}; -\sqrt{3}]$

333 $5\sqrt{5}x - \sqrt{20} = \sqrt{45}; \quad \sqrt{27}x - \sqrt{12} = \sqrt{3}(x + 1)$ $\left[1; \frac{3}{2}\right]$

334 $\sqrt{8}x + \sqrt{18}x = 5; \quad \sqrt{3}x = \sqrt{6} + \sqrt{27}; \quad 2x + 2\sqrt{3} = \sqrt{3}x + 4$ $\left[\frac{\sqrt{2}}{2}; \sqrt{2} + 3; 2\right]$

335 $2x - 3(x + \sqrt{5}) = 3x - 7\sqrt{5}; \quad (3 + \sqrt{3})x = 4\sqrt{3} - (\sqrt{3} - 3)x$ $[\sqrt{5}; 2]$

336 $\sqrt{3}(x - \sqrt{6} + 1) = \sqrt{3}(1 - x) + \sqrt{18}$ $[\sqrt{6}]$

337 $x(\sqrt{5} - 5) + \sqrt{2}(x + 1) - \sqrt{2} = \sqrt{125} + x(\sqrt{2} - 5); \quad x\sqrt{3} = x + 2\sqrt{3}$ $[5; 3 + \sqrt{3}]$

338 $\sqrt{2}x = 2 + \sqrt{2}; \quad 2\sqrt{2}x + 3 + \sqrt{2} = \sqrt{3}x + \sqrt{2}(2\sqrt{3} + 1)$ $[\sqrt{2} + 1; \sqrt{3}]$

339 $x\sqrt{2}(\sqrt{3} + 1) = \sqrt{2}(1 + x) + \sqrt{3}; \quad 3 + x(\sqrt{3} + 1) = x(1 - \sqrt{2}) + 5 + \sqrt{6}$ $\left[\frac{2\sqrt{3} + 3\sqrt{2}}{6}; \sqrt{2}\right]$

340 $\frac{x}{\sqrt{2}} = 7 - 2x; \quad \frac{x}{2\sqrt{2}} - \frac{x - 3}{3\sqrt{2}} - \frac{x}{2} = 0$ $\left[4 - \sqrt{2}; \frac{6}{17}(3\sqrt{2} + 1)\right]$

341 $(2 - \sqrt{3})x - \sqrt{6} = 2x - \sqrt{3}(2\sqrt{2} + 1); \quad x(3 - \sqrt{3}) = 6\left(\frac{x}{3 - \sqrt{3}} - 2\right)$ $[\sqrt{2} + 1; 2\sqrt{3}]$

343	$\frac{1}{x} + \frac{1}{x - \sqrt{2}} = \frac{\sqrt{2}}{x}; \quad \frac{3\sqrt{3}}{x}(x - \sqrt{3}) - 3 = \sqrt{3}\left(\frac{1}{x} - 1\right)$	[−1; $\sqrt{3} + 1$]
344	$\frac{x + \sqrt{3}}{x - \sqrt{3}} - \frac{x - \sqrt{3}}{x + \sqrt{3}} = \frac{12}{3 - x^2}$	[impossibile]
345	$\frac{x + \sqrt{3}}{x - \sqrt{3}} + \frac{x - \sqrt{3}}{x + \sqrt{3}} + \frac{2x^2}{3 - x^2} = 0$	[impossibile]
346	$\frac{1}{2\sqrt{2} + x} = \frac{4\sqrt{2}}{8 - x^2} + \frac{1}{x - 2\sqrt{2}}$	[indeterminata: $x \neq \pm 2\sqrt{2}$]
347	$\frac{\sqrt{2}}{x^2 - 2} + \frac{1}{x + \sqrt{2}} = \frac{\sqrt{2} - 1}{\sqrt{2} - x}$	[1 - $\sqrt{2}$]
348	$\frac{2x}{x^2 - 5} + \frac{x}{x - \sqrt{5}} = \frac{x^2 + 2\sqrt{5} + 5}{x^2 - 5}$	[impossibile]
349	$\frac{1 - \sqrt{5}}{\sqrt{5} - x} = \frac{x^2 + \sqrt{5}}{x^2 - \sqrt{5}x} + \frac{1 - x}{x}$	[impossibile]

Sistemi

352	$\begin{cases} 2\sqrt{3}x + \sqrt{2}y = 10 \\ 3\sqrt{3}x - 2\sqrt{2}y = 1 \end{cases}$	$\begin{cases} \frac{1}{2}\sqrt{2}x - \frac{1}{3}\sqrt{3}y = 2 \\ \sqrt{2}x - 3\sqrt{3}y = 11 \end{cases}$	$\left[\begin{cases} x = \sqrt{3} \\ y = 2\sqrt{2} \end{cases}; \begin{cases} x = \sqrt{2} \\ y = -\sqrt{3} \end{cases} \right]$
353	$\begin{cases} \sqrt{5}x - \sqrt{6}y = -4 \\ 3\sqrt{5}x - 8\sqrt{6}y = 18 \end{cases}$	$\begin{cases} \sqrt{3}x + \sqrt{7}y = 27 \\ \frac{\sqrt{3}}{2}x + \frac{2\sqrt{7}}{3}y = 17 \end{cases}$	$\left[\begin{cases} x = -2\sqrt{5} \\ y = -\sqrt{6} \end{cases}; \begin{cases} x = 2\sqrt{3} \\ y = 3\sqrt{7} \end{cases} \right]$
354	$\begin{cases} x + y = \sqrt{2} + \sqrt{3} \\ x - y = \sqrt{2} - \sqrt{3} \end{cases}$	$\begin{cases} x\sqrt{2} - y\sqrt{3} = 2\sqrt{6} \\ x + y = \sqrt{3} - \sqrt{2} \end{cases}$	$\left[\begin{cases} x = \sqrt{2} \\ y = \sqrt{3} \end{cases}; \begin{cases} x = \sqrt{3} \\ y = -\sqrt{2} \end{cases} \right]$
355	$\begin{cases} \sqrt{2}x + \sqrt{3}y = 0 \\ x + y = \sqrt{3} - \sqrt{2} \end{cases}$	$\begin{cases} x - 2\sqrt{2} = \sqrt{2}y \\ 2x + 2\sqrt{2}y = 8\sqrt{2} \end{cases}$	$\left[\begin{cases} x = \sqrt{3} \\ y = -\sqrt{2} \end{cases}; \begin{cases} x = 3\sqrt{2} \\ y = 1 \end{cases} \right]$
356	$\begin{cases} \frac{x + y}{2\sqrt{3}} = \frac{4\sqrt{3}}{11} \\ (2\sqrt{3} - 1)(x + y) = \frac{24}{2\sqrt{3} + 1} \end{cases}$		[indeterminato]
357	$\begin{cases} (1 - \sqrt{2})x - (1 + \sqrt{2})y = 2\sqrt{2} \\ \sqrt{2}(x + y + 3) = x - y \end{cases}$		[impossibile]

Disequazioni

- 361** $\sqrt{3}x > 6; \sqrt{2}x - 5 < 0; \sqrt{12}x + \sqrt{3} \leq 0$ $\left[x > 2\sqrt{3}; x < \frac{5\sqrt{2}}{2}; x \leq -\frac{1}{2} \right]$
- 362** $1 - \sqrt{2}x > 5; 2(3 - \sqrt{3}x) < 15$ $\left[x < -2\sqrt{2}; x > -\frac{3}{2}\sqrt{3} \right]$
- 363** $\sqrt{3}(x+1) - 2\sqrt{3} < 3; 2x + \sqrt{2} > x - \sqrt{8}$ $[x < \sqrt{3} + 1; x > -3\sqrt{2}]$
- 364** $\sqrt{2}(x-1) + 2 < 2\sqrt{2}x; x(\sqrt{3}+1) < \sqrt{2} + \sqrt{3}x$ $[x > \sqrt{2} - 1; x < \sqrt{2}]$
- 365** $\frac{x}{\sqrt{2}+1} < \frac{x}{\sqrt{2}}; x + \frac{2}{\sqrt{3}} < \frac{x+2}{3}$ $[x > 0; x < 1 - \sqrt{3}]$
- 366** $2(3x + \sqrt{3}) \geq 4x + 2(1 - \sqrt{3})$ $[x \geq 1 - 2\sqrt{3}]$
- 367** $6 + \sqrt{3}x \leq \sqrt{6}(1 + \sqrt{6}); x\sqrt{3} + \sqrt{6} > \sqrt{6}(\sqrt{2} + 1)$ $[x \leq \sqrt{2}; x > 2]$
- 368** $\sqrt{5}(x + 3\sqrt{5}) < \sqrt{3}(5\sqrt{3} - \sqrt{5}); 2\sqrt{3}(x + 3) < 6(\sqrt{3} + 1)$ $[x < -\sqrt{3}; x < \sqrt{3}]$
- 369** $\sqrt{2}(x-1) < \frac{x+1}{\sqrt{2}}; \frac{x+\sqrt{2}}{3} > \frac{x+\sqrt{3}}{2}$ $[x < 3; x < 2\sqrt{2} - 3\sqrt{3}]$
- 370** $(2 + \sqrt{3})x > 1; (\sqrt{3} + \sqrt{5})x < \sqrt{5} - \sqrt{3}$ $[x > 2 - \sqrt{3}; x < 4 - \sqrt{15}]$
- 371** $\sqrt{2}(x+1) > 1 - x; (\sqrt{3} + 1)x > 2$ $[x > 2\sqrt{2} - 3; x > \sqrt{3} - 1]$
- 372** $(1 - \sqrt{3})x - 1 > 0; (2 - \sqrt{5})x < 1$ $\left[x < -\frac{\sqrt{3}+1}{2}; x > -(2 + \sqrt{5}) \right]$
- 373** $(1 - \sqrt{2})x - \sqrt{2} + 1 > 0; (\sqrt{2} - 4)x < 14$ $[x < -1; x > -(\sqrt{2} + 4)]$
- 374** $x\sqrt{2} > (1 - \sqrt{2})(x+1); (\sqrt{2} + 2)(x-1) < 1 + 2x$ $\left[x > \frac{\sqrt{2}-3}{7}; x < 1 + \frac{3}{2}\sqrt{2} \right]$

Sistemi di disequazioni

- 375** $\begin{cases} \sqrt{2}x - (1-x) < 2\sqrt{2} + 1 \\ x + \sqrt{2} < 2x + 3\sqrt{2} \end{cases} \quad \begin{cases} \sqrt{3}x > \sqrt{12} \\ \sqrt{3}x < 3 + 2\sqrt{3}x \end{cases}$ $[-2\sqrt{2} < x < 2; x > 2]$
- 376** $\begin{cases} (1 - \sqrt{2})x > 0 \\ (2 - \sqrt{2})x < 2 + \sqrt{2} \end{cases} \quad \begin{cases} 2\sqrt{2}x > 6 + \sqrt{2}x \\ 3(1-x) > \sqrt{5}(x-1) \end{cases}$ $[x < 0; \text{impossibile}]$
- 377** $\begin{cases} \sqrt{2}(x-2) > \sqrt{3}x \\ \sqrt{2}x < \sqrt{3}x \end{cases} \quad \begin{cases} x+4 > \sqrt{5}x \\ \sqrt{8}x < 3(2 + \sqrt{2}x) \end{cases}$ $[\text{impossibile}; -3\sqrt{2} < x < \sqrt{5} + 1]$
- 378** $\begin{cases} \sqrt{2}x > \sqrt{6} \\ \sqrt{2}(x-2) > 2x-4 \end{cases} \quad \begin{cases} x + \sqrt{3} < 2\sqrt{3} - 2x \\ x - 1 < \sqrt{3}(x+1) \end{cases}$ $\left[\sqrt{3} < x < 2; -(2 + \sqrt{3}) < x < \frac{\sqrt{3}}{3} \right]$
- 379** $\begin{cases} (2 - \sqrt{2})x > 2 \\ (2 + \sqrt{2})x < 14 \end{cases} \quad \begin{cases} 2x - 3 < \sqrt{3} \\ \sqrt{3}x - 1 < 2 \end{cases}$ $[2 + \sqrt{2} < x < 7(2 - \sqrt{2}); x < \sqrt{3}]$

- 380 $\frac{\sqrt{2}x-1}{2+\sqrt{3}x} > 0$; $\frac{\sqrt{2}-\sqrt{6}x}{\sqrt{3}x} > 0$ $\left[x < -\frac{2}{3}\sqrt{3} \vee x > \frac{\sqrt{2}}{2}; 0 < x < \frac{\sqrt{3}}{3} \right]$
- 381 $\frac{1-2\sqrt{3}x}{3\sqrt{2}x-1} \geq 0$; $\frac{\sqrt{2}+\sqrt{8}x}{\sqrt{3}+3x} > 0$ $\left[\frac{\sqrt{2}}{6} < x \leq \frac{\sqrt{3}}{6}; x < -\frac{\sqrt{3}}{3} \vee x > -\frac{1}{2} \right]$
- 382 $\sqrt{2} - \frac{\sqrt{3}}{x} > 0$; $\frac{\sqrt{5}x+\sqrt{2}}{\sqrt{5}x} > 3$ $\left[x < 0 \vee x > \frac{\sqrt{6}}{2}; 0 < x < \frac{\sqrt{10}}{10} \right]$
- 383 $\frac{2x-\sqrt{2}}{\sqrt{2}-x} - \frac{1}{x-\sqrt{2}} > 1$; $\frac{4x}{\sqrt{2}-3x} > \frac{\sqrt{2}}{2\sqrt{2}-6x} + 1$ $\left[\frac{2\sqrt{2}-1}{3} < x < \sqrt{2}; \frac{3\sqrt{2}}{14} < x < \frac{\sqrt{2}}{3} \right]$
- 384 $\frac{3x}{2\sqrt{2}-6x} < \frac{\sqrt{3}x}{\sqrt{2}-3x} - \frac{1}{2}$ $\left[\frac{\sqrt{6}}{6} < x < \frac{\sqrt{2}}{3} \right]$
- 385 $\frac{\sqrt{2}+x^2}{x+\sqrt{2}} > x$; $\frac{x+\sqrt{2}}{x-2} > \frac{4\sqrt{2}}{2-x}$ $[-\sqrt{2} < x < 1; x < -5\sqrt{2} \vee x > 2]$
- 386 $\frac{x-\sqrt{2}}{\sqrt{2}x-2} \geq 0$; $(x-\sqrt{2})(x-\sqrt{3}) < 0$ $[x \neq \sqrt{2}; \sqrt{2} < x < \sqrt{3}]$
- 387 $x^2 - 2 > 0$; $(x^2 - 5)(x + \sqrt{2}) \leq 0$ $[x < -\sqrt{2} \vee x > \sqrt{2}; x \leq -\sqrt{5} \vee -\sqrt{2} \leq x \leq \sqrt{5}]$
- 388 $\frac{x-1+\sqrt{3}}{x\sqrt{3}} < 1$; $\frac{1+x}{2x} > \frac{1}{\sqrt{3}}$ $[x < 0 \vee x > 1; 0 < x < 3+2\sqrt{3}]$
- 389 $(6-x^2)(3\sqrt{2}-x) > 0$; $x^2 - (\sqrt{2}+\sqrt{3})x + \sqrt{6} < 0$ $[-\sqrt{6} < x < \sqrt{6} \vee x > 3\sqrt{2}; \sqrt{2} < x < \sqrt{3}]$

390 $\begin{cases} \sqrt{3}x - 1 \leq 0 \\ \frac{\sqrt{2}-x}{3x-\sqrt{3}} < 0 \end{cases}$ $\begin{cases} \frac{2x+\sqrt{8}}{9x+\sqrt{18}} \geq 0 \\ 9x+\sqrt{27} < 0 \end{cases}$ $\left[x < \frac{\sqrt{3}}{3}; x \leq -\sqrt{2} \right]$

391 $\begin{cases} \frac{1+\sqrt{2}x}{(1-\sqrt{2})x} > 0 \\ \frac{3+x}{1-\sqrt{3}x} > 0 \end{cases}$ $\begin{cases} \frac{1-x}{5-x} > 0 \\ \frac{3\sqrt{2}-6x}{6-\sqrt{2}x} < 0 \end{cases}$ $\left[-\frac{\sqrt{2}}{2} < x < 0; \frac{\sqrt{2}}{2} < x < 1 \right]$

392 $\begin{cases} \frac{\sqrt{3}-x}{x+\sqrt{3}} \geq 0 \\ \frac{x-\sqrt{3}}{x-\sqrt{2}} \geq 0 \end{cases}$ $\begin{cases} \frac{4x-1}{2x} \leq \frac{5}{2} \\ \frac{\sqrt{5}+1}{\sqrt{5}-x} \geq 1 \end{cases}$ $\left[-\sqrt{3} < x < \sqrt{2} \vee x = \sqrt{3}; \right. \\ \left. x = -1 \vee 0 < x < \sqrt{5} \right]$