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$$\frac{41}{x-52}$$

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$$4) \frac{1}{1+\sqrt{2}} = \frac{1}{1+\sqrt{2}} \times \frac{1-\sqrt{2}}{1-\sqrt{2}} = \frac{1(1-\sqrt{2})}{(1+\sqrt{2})(1-\sqrt{2})} = \frac{1-\sqrt{2}}{1-2}$$

$$\frac{1-\sqrt{2}}{-1} = -1+\sqrt{2}$$

$$5) \frac{9+\sqrt{15}}{11-\sqrt{3}} = \frac{(9+\sqrt{15}) \times (11+\sqrt{3})}{(11-\sqrt{3})(11+\sqrt{3})} = \frac{99+9\sqrt{3}+11\sqrt{15}+\sqrt{45}}{(11-\sqrt{3})(11+\sqrt{3})}$$

$$\frac{99+9\sqrt{3}+11\sqrt{15}+3\sqrt{5}}{118}$$

$$6) \frac{15-\sqrt{75}}{1+\sqrt{115}} = \frac{(15-5\sqrt{3}) \times (1-\sqrt{115})}{(1+\sqrt{115})(1-\sqrt{115})} = \frac{15-15\sqrt{115}-5\sqrt{3}+5\sqrt{345}}{1-115}$$

$$\frac{15-15\sqrt{115}-5\sqrt{3}+5\sqrt{345}}{-114}$$

$$7) \frac{7+\sqrt{58}}{18-\sqrt{35}} + (\sqrt{5})^4 = \frac{126+7\sqrt{35}+18\sqrt{58}+\sqrt{2030}}{289} + 4\sqrt{5}$$

$$\frac{126+7\sqrt{35}+18\sqrt{58}+\sqrt{2030}+4\sqrt{5}}{289}$$

$$8) \sqrt{\frac{\sqrt{6-18}}{(\sqrt{8})-\sqrt{3}}}$$

Simplificar racionalizando
denominador = Indefinido

$$6) \frac{\sqrt{73509}}{\sqrt{10+53}} = \frac{3\sqrt{73509}}{\sqrt{98}} = \frac{\sqrt{73509}}{5\sqrt{2}}$$

$$\frac{3\sqrt{73509}}{10} \times \frac{\sqrt{53}}{\sqrt{53}} = \frac{3\sqrt{73509}}{53\sqrt{53}} \times \sqrt{53} = \frac{\sqrt{73509} \times \sqrt{53}}{53 \times 10}$$

$$= \frac{6\sqrt{735090^2} \times 53^2}{10}$$

$$\underline{\underline{2809}}$$

$$7) \frac{28 + \sqrt{126}}{17 + \sqrt{45}} \times (\sqrt{3}) = \frac{28\sqrt{3} + \sqrt{126} \times \sqrt{3}}{17\sqrt{3} + \sqrt{45} \times \sqrt{3}}$$

$$\frac{75\sqrt{3} + 3\sqrt{126}}{17 + 3\sqrt{5}} = \frac{1275\sqrt{3} + 225\sqrt{18} + 153\sqrt{14} + 225\sqrt{90}}{2421}$$

$$= \frac{1275\sqrt{3} + 225\sqrt{18} + 153\sqrt{14} + 225\sqrt{90}}{2421}$$

$$7) \sqrt{\frac{36}{49}} \times \sqrt{\frac{14084}{24025}} = \frac{6}{7} \times \frac{122}{155} = \frac{7320}{1085}$$

$$2) (\sqrt{\sqrt{50625}})^2 = \sqrt{50625} = \underline{\underline{225}}$$

$$3) (\sqrt{\sqrt{8}})^3 + \sqrt[3]{729} = \sqrt[4]{8^3} + 9 = \sqrt[4]{512} + 9$$

$$\underline{\underline{4\sqrt[4]{2}} + 9}$$

$$4) \frac{(\sqrt{\sqrt{70728}})^3}{(\sqrt[3]{218+125})} = \frac{\sqrt[4]{70728^3}}{\sqrt[3]{343}} = \frac{\sqrt[4]{70728^3}}{7}$$