

$$1) \quad \frac{36}{49} \cdot \frac{14,224}{24,025} = \frac{732}{1025}$$

$$\frac{6}{7} \cdot \frac{122}{155} = \frac{732}{1025}$$



Propiedad Distributiva

$$2.) \quad \left(\sqrt{\sqrt{50,625}} \right)^2 = 225$$

Propiedad

Asociativa

$$\sqrt{(\sqrt{50,625}^2)} = 225$$

3)

$$\left(\sqrt{\sqrt{8}} \right)^3 + \sqrt[3]{729} = 4\sqrt[4]{2} +$$

$$\left(\sqrt[3]{729} \right) + \sqrt{\sqrt{8}}^3 =$$

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

Propiedad

Asociativa

$$4) \left(\frac{\sqrt[3]{707,287}}{\sqrt[3]{218+125}} \right)^3 = \frac{24,389}{7}$$

$$\frac{(\sqrt[3]{707,287})^3}{\sqrt[3]{841}} \div \frac{(\sqrt[3]{218+125})^3}{\sqrt[3]{343}}$$

$$\frac{24,389}{7}$$

Distribution

$$1) \frac{3 + \sqrt{8}}{5} = 1.17 \checkmark$$

$$2) \frac{7 - \sqrt{3}}{2} = 2.63 \checkmark$$

$$3) \frac{4}{7 - \sqrt{2}} = 0.71 \checkmark$$

$$4) \frac{7}{1 + \sqrt{2}} = \sqrt{2} = 1.41 \times$$

$$5) \frac{9 + \sqrt{15}}{11 - \sqrt{3}} = 1.39 \checkmark$$

$$6) \frac{15 - \sqrt{75}}{1 + \sqrt{116}} = 0.54 \checkmark$$

$$7) \frac{7 + \sqrt{68}}{16 - \sqrt{35}} + (\sqrt{5})^4 =$$

$$1.51 + 25 = 26.51 \checkmark$$

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

$$\frac{3\sqrt{6 \times 2}}{\sqrt{\frac{3}{8 \times 2} \sqrt{3}}} = \frac{3\sqrt{12}}{8 \times 2 \sqrt{3}} =$$

$$\frac{3\sqrt{2}}{8 \times 2} = \frac{3\sqrt{2}}{16} =$$

$$\frac{\sqrt{3}\sqrt{2}}{4} = \frac{\sqrt{3^2 \times 2}}{4} =$$

$$\sqrt{\frac{6 \times 2}{4}} = \sqrt{\frac{12}{4}} =$$

$$\frac{4\sqrt{12}}{\sqrt{2}} \times$$

$$9) \left(\sqrt[3]{735,091} \right)^2$$

$$\left(\sqrt{49 + 4} \right)^3$$

$$\sqrt[6]{735091}^2 = \sqrt[3]{735091}$$

$$\sqrt{(49 + 4)}^3 \quad \sqrt{53^3}$$

$$\sqrt[3]{735091} = \sqrt[3]{735091} \times \sqrt{53}$$

$$53 \sqrt{53} \quad 53 \sqrt{53} \quad \sqrt{53}$$

$$\sqrt[12]{735091} \sqrt{53} = \sqrt[6]{735091^2 \times 53^3}$$

$$53 \sqrt{53} \sqrt{53} \quad 53 \times 53$$

$$\sqrt[6]{735091^2 \times 53^3}$$

$$2809$$

$$\sqrt[6]{735091^2 \times 53^3}$$

$$53^2$$

$$=$$

$$\sqrt[6]{735091^3 \times 53} =$$

$$\sqrt[6]{53 \times 735091^2}$$

10)

$$\frac{25 + \sqrt{42}}{17 + \sqrt{45}}$$

$$\times (\sqrt{3})^3$$

$$1.33 \times 5.20 = 6.92$$