

A

$$\begin{aligned} 1. \quad & \sqrt{16900} = \\ & \sqrt[3]{0,125} = \\ & \sqrt{0,000041} = \\ & \sqrt{2,25} = \end{aligned}$$

$$\begin{aligned} & \sqrt[3]{0,064} = \\ & \sqrt[3]{343000} = \\ & \sqrt{0,0144} = \\ & \sqrt[3]{0,216} = \end{aligned}$$

2. UJMĚRNÍ:

$$\begin{aligned} a) \quad & \frac{12}{16} \\ b) \quad & \frac{3}{\sqrt[3]{9}} \\ c) \quad & \sqrt[3]{\frac{3}{5}} \\ d) \quad & \frac{\sqrt{2}}{1-\sqrt{2}} \\ e) \quad & \frac{\sqrt{5}-\sqrt{3}}{\sqrt{5}+\sqrt{3}} \end{aligned}$$

3. ČÁSTEČNĚ ODMOCNÍ, SEČTI, ODEČTI:

$$a) 8 \cdot \sqrt{50} + 4 \cdot \sqrt{32} - 6 \cdot \sqrt{162} =$$

$$b) 5 \cdot \sqrt[3]{625} - \sqrt[3]{5} - 10 \cdot \sqrt[3]{40} =$$

B

$$\begin{aligned} 1. \quad & \sqrt{22500} = \\ & \sqrt{0,000064} = \\ & \sqrt[3]{0,429} = \\ & \sqrt{3,24} = \end{aligned}$$

$$\begin{aligned} & \sqrt[3]{0,027} = \\ & \sqrt[3]{512000} = \\ & \sqrt{0,0196} = \\ & \sqrt[3]{0,000125} = \end{aligned}$$

2. UJMĚRNÍ:

$$\begin{aligned} a) \quad & \frac{15}{\sqrt{5}} \\ b) \quad & \frac{2}{\sqrt[3]{4}} \\ c) \quad & \sqrt[3]{\frac{4}{3}} \\ d) \quad & \frac{\sqrt{3}}{\sqrt{2}-\sqrt{3}} \\ e) \quad & \frac{\sqrt{7}+\sqrt{5}}{\sqrt{7}-\sqrt{5}} = \end{aligned}$$

3. ČÁSTEČNĚ ODMOCNÍ, SEČTI, ODEČTI:

$$a) 2 \cdot \sqrt{108} - 2 \cdot \sqrt{27} + 12 \cdot \sqrt{12} =$$

$$b) \sqrt[3]{32} + 2 \cdot \sqrt[3]{4} - \sqrt[3]{500} =$$

4. UPRAVTE NA CO NEJEDNODUŠÍ TVAR:

$$a) \sqrt[3]{75} \cdot \sqrt[3]{40} \cdot \sqrt[3]{72} =$$

$$b) (\sqrt{3} + \sqrt{2}) \cdot (\sqrt{12} - \sqrt{8}) =$$

$$c) (2\sqrt{3} + \sqrt{5})^2 =$$

$$d) \frac{\sqrt[3]{10} \cdot \sqrt[3]{50}}{\sqrt[3]{2} \cdot \sqrt[3]{200}} =$$

$$e) \sqrt{0,56} \cdot \sqrt{2,8} \cdot \sqrt{1,8} =$$

4. UPRAVTE NA CO NEJEDNODUŠÍ TVAR:

$$a) (2\sqrt{3} + \sqrt{5}) \cdot (\sqrt{3} - 2\sqrt{5}) =$$

$$b) \frac{\sqrt{2} \cdot \sqrt{12}}{\sqrt{6} \cdot \sqrt{24}} \cdot \sqrt{\frac{2}{3}} =$$

$$c) (\sqrt{2} + 3\sqrt{5})^2 =$$

$$d) \frac{\sqrt[3]{60} \cdot \sqrt[3]{10}}{\sqrt[3]{100} \cdot \sqrt[3]{4}} =$$

$$e) \sqrt[3]{150} \cdot \sqrt[3]{72} \cdot \sqrt[3]{20} =$$