

VÝPOČTY S ODMOCNINAMI A MOCNINAMI

1) Vypočítajte :

$$\sqrt{169} + \sqrt{225} =$$

$$\sqrt{144} + 6 \cdot \sqrt{25} =$$

$$\sqrt{64} - \sqrt{400} + \sqrt{289} =$$

$$3 \cdot \sqrt{81} + 7 \cdot \sqrt{36} =$$

$$8 \cdot \sqrt{100} - 5 \cdot \sqrt{144} =$$

$$6 \cdot \sqrt{144} - 3 \cdot \sqrt{169} + 4 \cdot \sqrt{196} =$$

$$\sqrt[3]{27} + 3 \cdot \sqrt[3]{64} =$$

$$2 \cdot \sqrt[3]{125} + 6 \cdot \sqrt[3]{216} =$$

2) Vypočítajte :

$$3 \cdot 5^2 + (2 \cdot 7)^2 =$$

$$(3 \cdot 5)^2 + 2 \cdot 7^2 =$$

$$3 \cdot 5^2 + 2 \cdot 7^2 =$$

$$5 \cdot \sqrt{81} - 3 \cdot 5^2 =$$

$$(\sqrt{36:4})^2 + 3^3 =$$

$$\sqrt{81:3} + 2^3 =$$

$$\sqrt{81:9} + 2^3 =$$

$$\sqrt{81:(3+2)}^3 =$$

3) Vypočítajte, zlomok upravte na základný tvar:

$$\frac{\sqrt{64} + \sqrt{36}}{\sqrt{16}} =$$

$$\frac{\sqrt{64} - \sqrt{36}}{\sqrt{16}} =$$

$$\frac{\sqrt[3]{8} + \sqrt{36}}{\sqrt[3]{64}} =$$

$$\frac{\sqrt[3]{8} - \sqrt{36}}{\sqrt[3]{64}} =$$

$$\frac{\sqrt[3]{125} - 3 \cdot \sqrt{16}}{\sqrt[3]{512}} =$$

$$7 \cdot \sqrt[3]{216} - 3 \cdot \sqrt[3]{343} =$$

$$\sqrt{2 \cdot 10 + 5} + \sqrt{3 \cdot 15 + 4} =$$

$$\sqrt{20 + 29} \cdot \sqrt{69 - 5} =$$

$$\sqrt{300 - 44} \cdot \sqrt{122 + 22} =$$

$$\sqrt[3]{150 - 25} \cdot \sqrt[3]{500 + 12} =$$

$$\sqrt[3]{70 - 6} \cdot \sqrt[3]{344 - 1} =$$

$$\sqrt{125 - 25} \cdot \sqrt[3]{200 + 16} =$$

$$\sqrt{100 + 96} \cdot \sqrt[3]{200 + 143} =$$

$$7 \cdot \sqrt[3]{27} + 4 \cdot 2^3 =$$

$$\sqrt{36:2} + 3^3 =$$

$$\sqrt{36:9} + 3^3 =$$

$$(\sqrt{36:2})^2 + 3^3 =$$

$$(\sqrt{81:9} + 2)^3 =$$

$$\sqrt[3]{27:3} + 2^2 =$$

$$\sqrt[3]{81:3} + 2^2 =$$

$$(\sqrt[3]{81:3} + 2)^2 =$$

$$\frac{\sqrt[3]{8} - 2 \cdot \sqrt{36}}{\sqrt[3]{64}} =$$

$$\frac{\sqrt[3]{216} - \sqrt[3]{27}}{\sqrt{64} - \sqrt{25}} =$$

$$\frac{\sqrt[3]{216} - \sqrt[3]{27}}{\sqrt{64} + \sqrt{25}} =$$

$$\frac{\sqrt[3]{125} - \sqrt{36}}{\sqrt{64} - \sqrt[3]{64}} =$$

$$\frac{\sqrt[3]{216} + \sqrt{49}}{\sqrt[3]{125} - \sqrt{8}} =$$