

Test – Určování druhé mocniny a odmocniny tabulkami

$$52\,300^2 =$$

$$72,36^2 =$$

$$549\,136^2 =$$

$$0,395^2 =$$

$$38\,572^2 =$$

$$0,011^2 =$$

$$(-120)^2 =$$

$$-0,3^2 =$$

$$12,6^2 =$$

$$\left(-\frac{14}{20}\right)^2 =$$

$$\sqrt{5600} =$$

$$\sqrt{1,25} =$$

$$\sqrt{790\,000} =$$

$$\sqrt{0,0563} =$$

$$\sqrt{1\,500\,000} =$$

$$\sqrt{0,156} =$$

$$\sqrt{64\,000} =$$

$$\sqrt{3,7089} =$$

$$\sqrt{5\,749} =$$

$$\sqrt{0,9} =$$

Řešení určování druhé mocniny:

$$52\,300^2 = (523 \cdot 100)^2 = 523^2 \cdot 100^2 = 273\,529 \cdot 10\,000 = \mathbf{2\,735\,290\,000}$$

$$549\,136^2 \rightarrow 549\,000^2 = (549 \cdot 1000)^2 = 549^2 \cdot 1000^2 = 301\,401 \cdot 1\,000\,000 = \mathbf{301\,401\,000\,000}$$

$$38\,572^2 \rightarrow 38\,500^2 = (385 \cdot 100)^2 = 385^2 \cdot 100^2 = 148\,225 \cdot 10\,000 = \mathbf{1\,482\,250\,000}$$

$$(-120)^2 = (-12 \cdot 10)^2 = (-12)^2 \cdot 10^2 = +144 \cdot 100 = \mathbf{14\,400}$$

$$12,6^2 = (126 \cdot 0,1)^2 = 126^2 \cdot 0,1^2 = 15\,876 \cdot 0,01 = \mathbf{158,76}$$

$$72,36^2 \rightarrow 72,4^2 = (724 \cdot 0,1)^2 = 724^2 \cdot 0,1^2 = 524\,176 \cdot 0,01 = \mathbf{5\,241,76}$$

$$0,395^2 = (395 \cdot 0,001)^2 = 395^2 \cdot 0,001^2 = 156\,025 \cdot 0,000\,001 = \mathbf{0,156\,025}$$

$$0,011^2 = (11 \cdot 0,001)^2 = 11^2 \cdot 0,001^2 = 121 \cdot 0,000\,001 = \mathbf{0,000\,121}$$

$$-0,3^2 = -(3 \cdot 0,1)^2 = -3^2 \cdot 0,1^2 = -9 \cdot 0,01 = \mathbf{-0,09}$$

$$\left(-\frac{14}{20}\right)^2 = +\frac{14^2}{20^2} = \frac{\mathbf{196}}{\mathbf{400}}$$

Řešení určování druhé odmocniny:

$$\sqrt{5600} = \sqrt{56 \cdot 100} = \sqrt{56} \cdot \sqrt{100} = 7,48 \cdot 10 = \mathbf{74,8}$$

$$\sqrt{790\,000} = \sqrt{79 \cdot 10\,000} = \sqrt{79} \cdot \sqrt{10\,000} = 8,89 \cdot 100 = \mathbf{889}$$

$$\sqrt{1\,500\,000} = \sqrt{150 \cdot 10\,000} = \sqrt{150} \cdot \sqrt{10\,000} = 12,25 \cdot 100 = \mathbf{1\,225}$$

$$\sqrt{64\,000} = \sqrt{640 \cdot 100} = \sqrt{640} \cdot \sqrt{100} = 25,30 \cdot 10 = 253,0 = \mathbf{253}$$

$$\sqrt{5\,749} \rightarrow \sqrt{5700} = \sqrt{57 \cdot 100} = \sqrt{57} \cdot \sqrt{100} = 7,55 \cdot 10 = \mathbf{75,5}$$

$$\sqrt{1,25} = \sqrt{125 \cdot 0,01} = \sqrt{125} \cdot \sqrt{0,01} = 11,18 \cdot 0,1 = \mathbf{1,118}$$

$$\sqrt{0,0563} = \sqrt{563 \cdot 0,0001} = \sqrt{563} \cdot \sqrt{0,0001} = 23,73 \cdot 0,01 = \mathbf{0,2373}$$

$$\sqrt{0,156} \rightarrow \sqrt{0,16} = \sqrt{16 \cdot 0,01} = \sqrt{16} \cdot \sqrt{0,01} = 4 \cdot 0,1 = \mathbf{0,4}$$

$$\sqrt{3,7089} \rightarrow \sqrt{3,71} = \sqrt{371 \cdot 0,01} = \sqrt{371} \cdot \sqrt{0,01} = 19,26 \cdot 0,1 = \mathbf{1,926}$$

$$\sqrt{0,9} = \sqrt{0,90} = \sqrt{90 \cdot 0,01} = \sqrt{90} \cdot \sqrt{0,01} = 9,49 \cdot 0,1 = \mathbf{0,949}$$