

Frazred 15 cas: Decimalni zapis realnog broja približne vrednosti  
 Datum: 25.09.2020.

$$\boxed{142} \quad (a) \sqrt{(1-\sqrt{3})^2} = |1-\sqrt{3}| = \sqrt{3}-1 = 0,732 \approx 0,73 \quad \boxed{\sqrt{x^2} = |x|}$$

$$(b) \sqrt{(2-\sqrt{7})^2} = |2-\sqrt{7}| = \sqrt{7}-2 \approx 2,6457-2 \approx 0,6457 \approx 0,65$$

$$\boxed{143} \quad \sqrt{14} = 3,742 \quad \sqrt{5} = 2,236$$

$$(a) \sqrt{14} + \sqrt{5} \approx 3,742 + 2,236 = 5,978 \approx \boxed{5,98}$$

$$(b) \sqrt{14} - \sqrt{5} \approx 3,742 - 2,236 = 1,506 \approx \boxed{1,51}$$

$$(c) \sqrt{14} \cdot \sqrt{5} \approx 3,742 \cdot 2,236 = 8,367112 \approx \boxed{8,37}$$

$$3,742 \cdot 2,236 = \begin{array}{r} 22452 \\ 11226 \\ 7484 \\ 7484 \\ \hline 8367112 \end{array}$$

$$(d) \frac{\sqrt{14}}{\sqrt{5}} = \frac{3,742}{2,236} =$$

$$= \frac{3742}{2236} = \frac{1871}{1118} = 1,673 \approx 1,67$$

$$1871 : 1118 = 1,673$$

$$\begin{array}{r} 1118 \\ \hline 7530 \\ 6708 \\ \hline 8220 \\ 7826 \\ \hline 3940 \\ 3354 \end{array}$$

$$\boxed{148} \quad (A) (\sqrt{18} + \sqrt{50})^2 - 128 = (3\sqrt{2} + 5\sqrt{2})^2 - 128 = (8\sqrt{2})^2 - 128 = 128 - 128 = \boxed{0}$$

$$18 = 2 \cdot 9 = 2 \cdot 3^2$$

$$50 = 2 \cdot 25 = 2 \cdot 5^2$$

$$(b) (2\sqrt{98} - \sqrt{32})^2 - 200 = (14\sqrt{2} - 4\sqrt{2})^2 - 200 = (10\sqrt{2})^2 - 200 = \boxed{0}$$

$$98 = 2 \cdot 49 = 2 \cdot 7^2$$

$$32 = 2 \cdot 16 = 2 \cdot 4^2$$

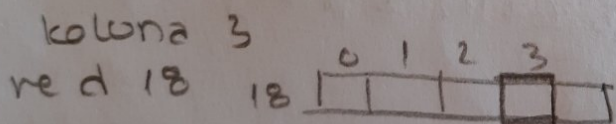
$$(c) (\sqrt{48} - \sqrt{3})^2 - 27 = (3\sqrt{3})^2 - 27 = 27 - 27 = \boxed{0}$$

$$\sqrt{48} = \sqrt{16 \cdot 3} = \sqrt{4^2 \cdot 3} = 4\sqrt{3}$$

137] Opis postupka korenu broja od 0 do 50  
 možemo naći na str. 27  
 dok na strani 28 i 29 imamo koren od 0 do 1009

$\sqrt{abcd}$  → izdvojimo cifru JEDINICA d  
 ta cifra d odgovara koloni  
 dok abc odgovara RED-u  
 gde  $abcd \leq 1009$

a)  $\sqrt{183} = \sqrt{18|3} \approx 13,53$



(c)  $\sqrt{19} \approx \sqrt{1|9} \approx 4,359$

(d)  $\sqrt{6} \approx 2,449$

b)  $\sqrt{67} = \sqrt{6|7} \approx 8,18$

