Вежбање

03.11.20.

* Збирка, страна 24:

194. б) $(\sqrt{108} - \sqrt{75} + \sqrt{48}) \cdot \sqrt{12} =$

① $= \sqrt{108 \cdot 12} - \sqrt{75 \cdot 12} + \sqrt{9 \cdot 8 \cdot 12} =$

② $= (6\sqrt{3} - 5\sqrt{3} + 4\sqrt{3}) \cdot 2\sqrt{3} = 5\sqrt{3} \cdot 2\sqrt{3} = 10 \cdot 3 = 30$

191. а) $(\sqrt{8} + \sqrt{32}) \cdot \sqrt{2} \overset{①}{=} \sqrt{8 \cdot 2} + \sqrt{32 \cdot 2} = 4 + \sqrt{64} = 4 + 8 = 12$

!!! $\sqrt{(-16)^2} = 16$!!!

248. б) $a = 16 \quad b = 30 \quad c = 34$

$c^2 = a^2 + b^2 \quad 34^2 = 16^2 + 30^2 \quad 1156 = 256 + 900 \quad 1156 = 1156$ ✓

Ово јесте правоугли троугао.

301. а) $P = 9\sqrt{3}\,cm^2 \quad O = ? \quad h = ?$

$O = 3 \cdot a \quad P = \frac{a^2\sqrt{3}}{4} \quad 9\sqrt{3}\,cm^2 = \frac{a^2\sqrt{3}}{4} \quad 9 = \frac{a^2}{4} \quad a^2 = 9 \cdot 4 \quad a^2 = 36 \quad \boxed{a = 6\,cm}$

$O = 3 \cdot 6\,cm \quad \boxed{O = 18\,cm} \quad h = \frac{a\sqrt{3}}{2} \quad h = \frac{6\sqrt{3}}{2} \quad \boxed{h = 3\sqrt{3}\,cm}$

273. б) $a = 10 \quad d = 26 \quad b = ? \quad O = ? \quad P = ? \quad r_0 = \frac{d}{2}$

$b^2 = d^2 - a^2 \quad b^2 = 676 - 100 \quad b^2 = 576 \quad \boxed{b = 24}$

$O = 2a + 2b \quad O = 20 + 48 \quad \boxed{O = 68}$

$P = a \cdot b \quad P = 10 \cdot 24 \quad \boxed{P = 240}$

а) $b = 24 \quad d = 30 \quad a = ? \quad O = ? \quad P = ?$

$a^2 = d^2 - b^2 \quad a^2 = 900 - 576 \quad a^2 = 324 \quad \boxed{a = 18}$

$O = 2a + 2b \quad O = 36 + 48 \quad \boxed{O = 82}$

$P = a \cdot b \quad P = 18 \cdot 24 \quad P =$

* Домаћи: 298. а) (4) 312. а) 248. а) (3) 222. б) 191. 5) е) (2)