3/11/2020

888
$$\left(\frac{\sqrt{6} - \sqrt{2} + \sqrt{15} - \sqrt{5}}{\sqrt{6} + \sqrt{2} + \sqrt{15} + \sqrt{5}} - 2 + \sqrt{75}\right)^2 = \frac{1}{\sqrt{6}}$$

$$= \left(\frac{\sqrt{2}(\sqrt{3}-1)+\sqrt{5}(\sqrt{3}-1)}{\sqrt{2}(\sqrt{3}+1)+\sqrt{5}(\sqrt{3}+1)} - 2 + \sqrt{3\cdot5^2}\right)^2 =$$

$$= \frac{\left((\sqrt{3} - 1) (\sqrt{2} + \sqrt{5}) - 2 + 5\sqrt{3} \right)^{2}}{\left((\sqrt{3} + 1) (\sqrt{2} + \sqrt{5}) \right)} =$$

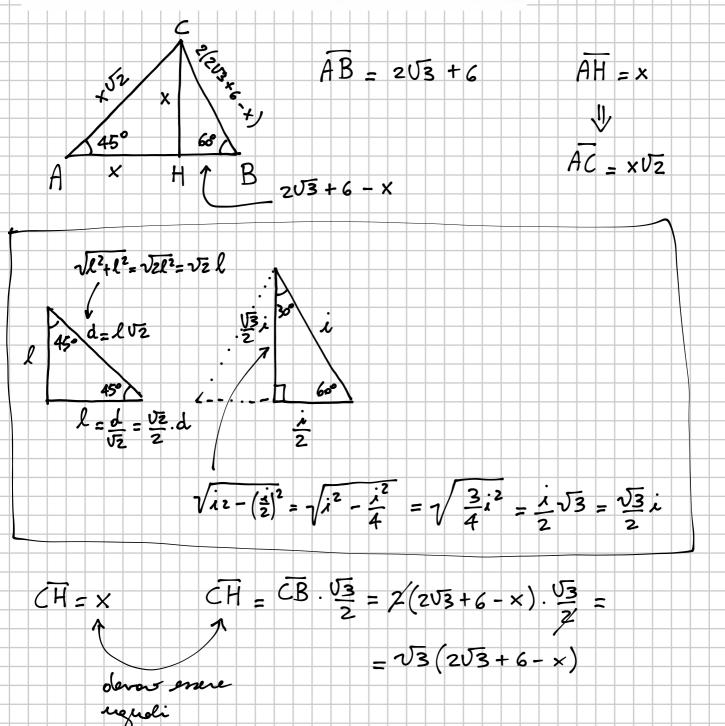
$$= \left(\frac{(\sqrt{3} - 1)^2}{3 - 1} - 2 + 5\sqrt{3} \right)^2 =$$

$$= \left(\frac{3}{3} + 1 - 2\sqrt{3} - 2 + 5\sqrt{3}\right)^2 =$$

$$= \left(\frac{2(2-\sqrt{3})}{2} - 2 + 5\sqrt{3}\right)^2 = \left(2-\sqrt{3}-2+5\sqrt{3}\right)^2 = \left(2-\sqrt$$

$$= (403)^2 = 16 \cdot 3 = \boxed{48}$$

967 In un triangolo ABC, $B\widehat{A}C = 45^{\circ}$, $A\widehat{B}C = 60^{\circ}$ e la lunghezza di AB è $(2\sqrt{3} + 6)$ cm. Determina il perimetro del triangolo. $[6(1 + \sqrt{2} + \sqrt{3}) \text{ cm}]$



$$\times = \sqrt{3} \left(2\sqrt{3} + 6 - \times \right)$$

$$x = 6 + 603 - \sqrt{3}x$$
 $x + \sqrt{3}x = 6 + 6\sqrt{3}$