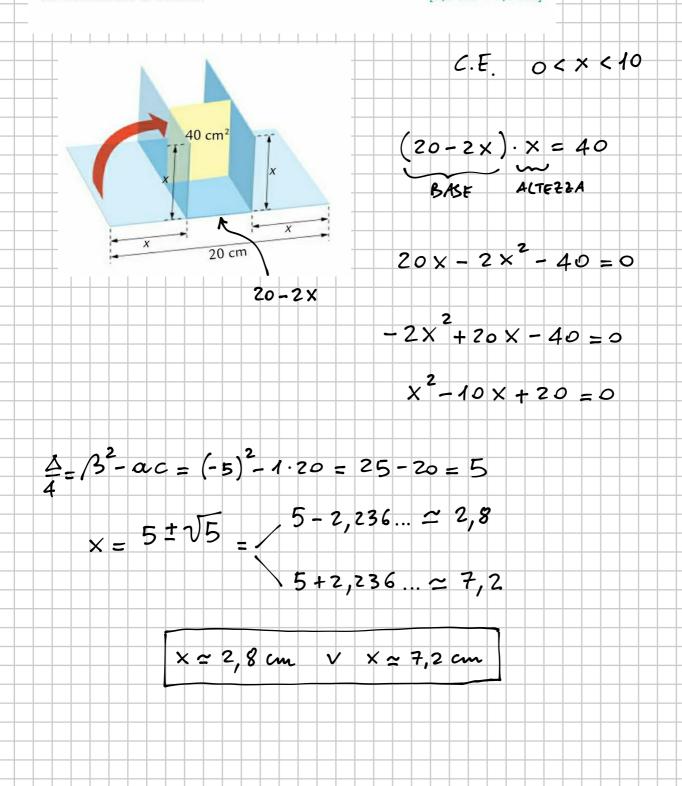
11/11/2020 697 Sapendo che AB = 8 cm e BC = 4 cm, determina xin modo che l'area del triangolo colorato in verde in figura sia 10 cm². C.E. • 4-2×>0 " -2×>-4 $2 \times < 4$ 8 cm X < 2 $1 \text{ cm} \vee \frac{3}{2} \text{ cm}$ • ×>0 0 < x < 2 PRR = ARTHNGOLO (APRD + PRQ + ARCR) (VE/DE) $10 = 32 - (x + 8 - 3x) \cdot \cancel{\cancel{A}} = (8 - x) \cdot \cancel{\cancel{Z}} \times - 3x (4 - 2x) \cdot \cancel{\cancel{1}}$ $10 = 32 - (8 - 2x) \cdot 2 - 8x + x^2 - 6x + 3x^2$ $10 = 32 - 16 + 4 \times - 8 \times + x^2 - 6 \times + 3 \times^2$ $4x^{2} - 10 \times +6 = 0 \implies 2x^{2} - 5x + 3 = 0$ $\Delta = 25 - 24 = 1$ x = 5 + 1 = 1 tune = 4 = 6 = 3 occettobili = 7 perche comprese from $X = 1 \text{ cm} \quad V \quad X = 1,5 \text{ cm}$

Una grondaia viene costruita a partire da lastre di alluminio aventi la larghezza di 20 cm. I bordi vengono ripiegati in modo da formare con la lastra degli angoli retti, come mostrato in figura. Determina l'altezza della grondaia, in modo che la sua sezione rettangolare abbia un'area di 40 cm². Arrotonda le soluzioni ai decimi. [2,8 cm ∨ 7,2 cm]



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$$(x - \sqrt{3})^2 - 2x + 2\sqrt{3} = 3(x - \sqrt{3})(x + \sqrt{3})$$
 $\times^2 + 3 - 2\sqrt{3} \times - 2 \times + 2\sqrt{3} = 3(x^2 - 3)$
 $\times^2 + 3 - 2\sqrt{3} \times - 2 \times + 2\sqrt{3} = 3 \times^2 - 9$
 $-2 \times^2 - 2\sqrt{3} \times - 2 \times + 42 + 2\sqrt{3} = 0$
 $\times^2 + \sqrt{3} \times + \times - 6 - \sqrt{3} = 0$
 $\times^2 + (\sqrt{3} + 4) \times - 6 - \sqrt{3} = 0$
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 $\times = (\sqrt{3} + 4) \pm \sqrt{29 + 6\sqrt{3}} = (\sqrt{3} + 4) \pm \sqrt{(4 + 3\sqrt{3})^2} \times = 0$
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$$(3x-1)(x+2) - (2x+1)(x+3) = -5$$

$$3 \times 2 + 6 \times - 2 - 2 \times 2 - 6 \times - 2 - 3 + 5 = 0$$

$$x^2 - 2x = 0$$

$$\begin{array}{c} x - 2x = 0 \\ \times (x - 2) = 0 \\ \hline \times -2 = 0 \Rightarrow \times = 2 \\ \hline \times = 0 \quad \forall \quad x = 2 \\ \hline \end{array}$$

$$x^{2}-2 \times = 0$$
 Con le forme $\frac{\triangle}{4} = (-1)^{2} - 1 \cdot 0 = 1$

$$X = 1 \pm \sqrt{1} = 7$$
 $1 + 1 = 2$
 $1 - 1 = 0$