

<https://www.gutefrage.net/frage/kann-bitte-jemand-meiner-nichte-bei-mathe-helfen>

	9a $b = \sqrt{a^2 - c^2}$ $b = \sqrt{14^2 - 6,8^2}$ $b = 12,237647 \text{ cm}$ --- $\gamma = \arcsin(\gamma / \alpha)$ $\gamma = \arcsin(6,8 / 14)$ $\gamma = 29,059281^\circ$ --- $\beta = 180 - \alpha - \gamma$ $\beta = 180 - 90 - 29,059281$ $\beta = 60,940719^\circ$ ----- 9b $a = \sqrt{b^2 - c^2}$ $a = \sqrt{0,8^2 - 0,3^2}$ $a = 0,741620 \text{ m}$ --- $\gamma = \arcsin(c / b)$ $\gamma = \arcsin(0,3 / 0,8)$ $\gamma = 22,024313^\circ$ --- $\alpha = 180 - \beta - \gamma$ $\alpha = 180 - 90 - 22,024313$ $\alpha = 67,975687^\circ$ ----- 9c $a = b \cdot \tan(\alpha)$ $a = 4,7 \cdot \tan(18,6)$ $a = 1,58172475 \text{ dm}$ --- $c = b / \cos(\alpha)$ $c = 4,7 / \cos(18,6)$ $c = 4,959017 \text{ dm}$ --- $\beta = 180 - \alpha - \gamma$ $\beta = 180 - 18,6 - 90$ $\beta = 71,4^\circ$	9d $b = c \cdot \tan(\beta)$ $b = 4,8 \cdot \tan(52,6)$ $b = 6,278139 \text{ cm}$ --- $c = c / \cos(\beta)$ $c = 4,8 / \cos(52,6)$ $c = 7,902850 \text{ cm}$ --- $\gamma = 180 - \alpha - \beta$ $\gamma = 180 - 90 - 52,6$ $\gamma = 37,4^\circ$ ----- 9e $b = \sqrt{a^2 + c^2}$ $b = \sqrt{2,4^2 + 2,7^2}$ $b = 3,612478 \text{ m}$ --- $\alpha = \arctan(a / c)$ $\alpha = \arctan(2,4 / 2,7)$ $\alpha = 41,633539^\circ$ --- $\gamma = 180 - \alpha - \beta$ $\gamma = 180 - 41,633539 - 90$ $\gamma = 48,366461^\circ$
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