

<https://www.gutefrage.net/frage/hilfe-bei-mathe-291>

Aufgabe 2021B/4b --- Fläche A1 berechnen --- $\alpha_1 = \arctan(a / b)$ $\alpha_1 = \arctan(14,85 / 10,5)$ $\alpha_1 = 54,73698827^\circ$ --- $\alpha_2 = \alpha_1$ $\alpha_2 = 54,73698827^\circ$ --- $\gamma_1 = 180 - \alpha_1 - \alpha_2$ $\gamma_1 = 180 - 54,736988 - 54,736988$ $\gamma_1 = 70,526023^\circ$ --- $C'F = C'M_2 * \tan(\gamma_1 / 2)$ $C'F = 10,5 * \tan(70,526023 / 2)$ $C'F = 10,5 * \tan(35,2630115)$ $C'F = 7,424242 \text{ cm}$ --- Fläche rotes Viereck A1 $A_1 = C'M_2 * C'F / 2 * 2$ $A_1 = C'M_2 * C'F$ $A_1 = 10,5 * 7,424242$ $A_1 = 77,9545 \text{ cm}^2$	Fläche A2 berechnen --- $\alpha_4 = \alpha_1$ $\alpha_4 = 54,734232^\circ$ --- $\alpha_5 = \alpha_1$ $\alpha_5 = 54,734232^\circ$ --- $\alpha_6 = \alpha_1$ $\alpha_6 = 54,734232^\circ$ --- $\alpha_6 = 180 - \alpha_5 - \alpha_6$ $\alpha_6 = 180 - 54,734232 - 54,734232$ $\alpha_6 = 70,526023^\circ$ --- $DE = DM / \tan((\alpha_6))$ $DE = 14,85 / \tan(70,526023)$ $DE = 5,251071 \text{ cm}$ --- Fläche gelbes Dreieck A2 $A_2 = DM_1 * DE / 2$ $A_2 = 14,85 * 5,251071 / 2$ $A_2 = 38,9892 \text{ cm}^2$
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