



Dreiecke konstruieren

Konstruiere ein Dreieck aus den gegebenen Stücken.

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|--------------------------|-----------------------|-----------------------|
| 1. $a = 9.8 \text{ cm}$ | $\alpha = 128^\circ$ | $\beta = 20^\circ$ |
| 2. $a = 6.4 \text{ cm}$ | $\alpha = 115^\circ$ | $\gamma = 30^\circ$ |
| 3. $a = 7.5 \text{ cm}$ | $\beta = 87^\circ$ | $\gamma = 67^\circ$ |
| 4. $b = 3.8 \text{ cm}$ | $\alpha = 105^\circ$ | $\beta = 41^\circ$ |
| 5. $b = 11.7 \text{ cm}$ | $\alpha = 30^\circ$ | $\gamma = 59^\circ$ |
| 6. $b = 4.1 \text{ cm}$ | $\beta = 67^\circ$ | $\gamma = 41^\circ$ |
| 7. $c = 3.7 \text{ cm}$ | $\alpha = 102^\circ$ | $\beta = 31^\circ$ |
| 8. $c = 9.4 \text{ cm}$ | $\alpha = 26^\circ$ | $\gamma = 60^\circ$ |
| 9. $c = 3.5 \text{ cm}$ | $\beta = 43^\circ$ | $\gamma = 22^\circ$ |
| 10. $a = 7.5 \text{ cm}$ | $b = 10.5 \text{ cm}$ | $\alpha = 46^\circ$ |
| 11. $a = 5.9 \text{ cm}$ | $b = 3.6 \text{ cm}$ | $\beta = 37^\circ$ |
| 12. $a = 7.0 \text{ cm}$ | $b = 5.0 \text{ cm}$ | $\gamma = 27^\circ$ |
| 13. $a = 6.5 \text{ cm}$ | $c = 5.1 \text{ cm}$ | $\alpha = 83^\circ$ |
| 14. $a = 8.5 \text{ cm}$ | $c = 6.4 \text{ cm}$ | $\beta = 53^\circ$ |
| 15. $a = 4.0 \text{ cm}$ | $c = 2.9 \text{ cm}$ | $\gamma = 46^\circ$ |
| 16. $b = 7.9 \text{ cm}$ | $c = 8.5 \text{ cm}$ | $\alpha = 68^\circ$ |
| 17. $b = 2.8 \text{ cm}$ | $c = 3.7 \text{ cm}$ | $\beta = 24^\circ$ |
| 18. $b = 8.5 \text{ cm}$ | $c = 4.7 \text{ cm}$ | $\gamma = 33^\circ$ |
| 19. $a = 7.2 \text{ cm}$ | $b = 12.5 \text{ cm}$ | $c = 12.4 \text{ cm}$ |



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Die restlichen drei Stücke lauten jeweils:

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|-----|-----------------------|-----------------------|----------------------|
| 1. | $b = 4.2 \text{ cm}$ | $c = 6.5 \text{ cm}$ | $\gamma = 32^\circ$ |
| 2. | $b = 4.0 \text{ cm}$ | $c = 3.5 \text{ cm}$ | $\beta = 35^\circ$ |
| 3. | $b = 17.0 \text{ cm}$ | $c = 15.7 \text{ cm}$ | $\alpha = 26^\circ$ |
| 4. | $a = 5.7 \text{ cm}$ | $c = 3.2 \text{ cm}$ | $\gamma = 34^\circ$ |
| 5. | $a = 5.9 \text{ cm}$ | $c = 10.1 \text{ cm}$ | $\beta = 91^\circ$ |
| 6. | $a = 4.2 \text{ cm}$ | $c = 2.9 \text{ cm}$ | $\alpha = 72^\circ$ |
| 7. | $a = 5.0 \text{ cm}$ | $b = 2.6 \text{ cm}$ | $\gamma = 47^\circ$ |
| 8. | $a = 4.7 \text{ cm}$ | $b = 10.9 \text{ cm}$ | $\beta = 94^\circ$ |
| 9. | $a = 8.6 \text{ cm}$ | $b = 6.5 \text{ cm}$ | $\alpha = 115^\circ$ |
| 10. | $c = 6.7 \text{ cm}$ | $\beta = 94^\circ$ | $\gamma = 40^\circ$ |
| 11. | $c = 3.7 \text{ cm}$ | $\alpha = 105^\circ$ | $\gamma = 38^\circ$ |
| 12. | $c = 3.4 \text{ cm}$ | $\alpha = 111^\circ$ | $\beta = 42^\circ$ |
| 13. | $b = 4.7 \text{ cm}$ | $\beta = 46^\circ$ | $\beta = 51^\circ$ |
| 14. | $b = 6.9 \text{ cm}$ | $\alpha = 79^\circ$ | $\gamma = 48^\circ$ |
| 15. | $b = 3.5 \text{ cm}$ | $\alpha = 75^\circ$ | $\beta = 59^\circ$ |
| 16. | $a = 9.1 \text{ cm}$ | $\beta = 53^\circ$ | $\gamma = 59^\circ$ |
| 17. | $a = 5.7 \text{ cm}$ | $\alpha = 124^\circ$ | $\gamma = 32^\circ$ |
| 18. | $a = 6.0 \text{ cm}$ | $\alpha = 43^\circ$ | $\beta = 104^\circ$ |
| 19. | $\alpha = 34^\circ$ | $\beta = 74^\circ$ | $\gamma = 72^\circ$ |