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Figure 10.10: A sequence of 12 diagrams illustrating the steps of the Euclidean algorithm for finding the GCD of 12 and 18. The diagrams show the division of 18 by 12, the remainder 6, and the subsequent steps until the GCD is found.

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The diagrams show the steps of the Euclidean algorithm for finding the GCD of 12 and 18. The steps are as follows:

- 18 divided by 12, remainder 6.
- 12 divided by 6, remainder 0.
- 6 divided by 6, remainder 0.

The GCD is 6.

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$\frac{1}{\sqrt{2}} \begin{pmatrix} 1 & i \\ -1 & i \end{pmatrix}$

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The diagrams illustrate the steps of the Euclidean algorithm for finding the GCD of 12 and 18. The steps are as follows:
















- Initial numbers: 12 and 18.
- Divide 18 by 12, remainder 6.
- Divide 12 by 6, remainder 0.
- Divide 6 by 6, remainder 0.
- Final result: 6.

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$\triangle A_1 A_2 A_3 \triangle A_4 A_5 A_6 \triangle A_7 A_8 A_9 \triangle A_{10} A_{11} A_{12} \triangle A_{13} A_{14} A_{15} \triangle A_{16} A_{17} A_{18} \triangle A_{19} A_{20} A_{21} \triangle A_{22} A_{23} A_{24} \triangle A_{25} A_{26} A_{27} \triangle A_{28} A_{29} A_{30} \triangle A_{31} A_{32} A_{33} \triangle A_{34} A_{35} A_{36} \triangle A_{37} A_{38} A_{39} \triangle A_{40} A_{41} A_{42} \triangle A_{43} A_{44} A_{45} \triangle A_{46} A_{47} A_{48} \triangle A_{49} A_{50} A_{51} \triangle A_{52} A_{53} A_{54} \triangle A_{55} A_{56} A_{57} \triangle A_{58} A_{59} A_{60} \triangle A_{61} A_{62} A_{63} \triangle A_{64} A_{65} A_{66} \triangle A_{67} A_{68} A_{69} \triangle A_{70} A_{71} A_{72} \triangle A_{73} A_{74} A_{75} \triangle A_{76} A_{77} A_{78} \triangle A_{79} A_{80} A_{81} \triangle A_{82} A_{83} A_{84} \triangle A_{85} A_{86} A_{87} \triangle A_{88} A_{89} A_{90} \triangle A_{91} A_{92} A_{93} \triangle A_{94} A_{95} A_{96} \triangle A_{97} A_{98} A_{99} 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