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

- Diagram 1: A horizontal line with a point labeled '12' and a point labeled '18'.
- Diagram 2: A horizontal line with a point labeled '12' and a point labeled '18'.
- Diagram 3: A horizontal line with a point labeled '12' and a point labeled '18'.
- Diagram 4: A horizontal line with a point labeled '12' and a point labeled '18'.
- Diagram 5: A horizontal line with a point labeled '12' and a point labeled '18'.
- Diagram 6: A horizontal line with a point labeled '12' and a point labeled '18'.
- Diagram 7: A horizontal line with a point labeled '12' and a point labeled '18'.
- Diagram 8: A horizontal line with a point labeled '12' and a point labeled '18'.
- Diagram 9: A horizontal line with a point labeled '12' and a point labeled '18'.
- Diagram 10: A horizontal line with a point labeled '12' and a point labeled '18'.
- Diagram 11: A horizontal line with a point labeled '12' and a point labeled '18'.
- Diagram 12: A horizontal line with a point labeled '12' and a point labeled '18'.
- Diagram 13: A horizontal line with a point labeled '12' and a point labeled '18'.
- Diagram 14: A horizontal line with a point labeled '12' and a point labeled '18'.
- Diagram 15: A horizontal line with a point labeled '12' and a point labeled '18'.

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$\begin{array}{ccccccc} \textcircled{\Delta} & \triangle & \textcircled{\Delta} & \vdash & \textcircled{\Delta} & \triangle & \textcircled{\Delta} \\ \textcircled{\Delta} & \vdash & \textcircled{\Delta} & \triangle & \textcircled{\Delta} & \vdash & \textcircled{\Delta} \\ \textcircled{\Delta} & \vdash & \textcircled{\Delta} & \triangle & \textcircled{\Delta} & \vdash & \textcircled{\Delta} \\ \textcircled{\Delta} & \vdash & \textcircled{\Delta} & \triangle & \textcircled{\Delta} & \vdash & \textcircled{\Delta} \end{array}$

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$\triangle_1 \triangle_2 \triangle_3 + \triangle_1 \triangle_2 \triangle_3 - \triangle_1 \triangle_2 \triangle_3 - \triangle_1 \triangle_2 \triangle_3 + \triangle_1 \triangle_2 \triangle_3 + \triangle_1 \triangle_2 \triangle_3$
















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$\Delta A \cdot A$ $A + A \Delta A \Delta A \Delta A$ $A \cdot A + A \Delta A \Delta A + \Delta A \cdot A$ $A \cdot A \Delta A \Delta A \Delta A$ $A \cdot A + A \cdot A$

$A \Delta A$ $A \Delta A + \Delta A \cdot A$ $A \Delta A \Delta A$ $A \cdot A \Delta A \Delta A$ $A \Delta A \Delta A +$

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$\frac{1}{2} + \frac{1}{2} \Delta \frac{1}{2} \frac{1}{2} \quad \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} + \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \quad \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \quad \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \quad \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \quad \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2}$
 $\frac{1}{2} \frac{1}{2} + \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \quad \frac{1}{2} \frac{1}{2} + \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \quad \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \quad \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2}$

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$\begin{array}{l}
 \vdash A \triangle B \quad \vdash A \triangle C \quad \vdash A \triangle D \quad \vdash A \triangle E \quad \vdash A \triangle F \quad \vdash A \triangle G \quad \vdash A \triangle H \quad \vdash A \triangle I \quad \vdash A \triangle J \\
 \vdash A \triangle K \quad \vdash A \triangle L \quad \vdash A \triangle M \quad \vdash A \triangle N \quad \vdash A \triangle O \quad \vdash A \triangle P \quad \vdash A \triangle Q \quad \vdash A \triangle R \quad \vdash A \triangle S
 \end{array}$

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$\frac{1}{x} + \frac{1}{y} = \frac{x+y}{xy}$

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