

[illegible][illegible][illegible]

$\frac{A}{\Delta} \frac{\bar{A}}{\Delta} + \frac{\bar{A}}{\Delta} - \frac{A}{\Delta} = \frac{A}{\Delta} \frac{\bar{A}}{\Delta} + \frac{A}{\Delta} + \frac{A}{\Delta} \frac{\bar{A}}{\Delta} \frac{\bar{A}}{\Delta} A - \frac{A}{\Delta} \frac{\bar{A}}{\Delta} A - \frac{\bar{A}}{\Delta} \frac{\bar{A}}{\Delta} \frac{\bar{A}}{\Delta} \frac{\bar{A}}{\Delta}$

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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 vertical line segment at the left end, representing the initial state.
- Diagram 2: A horizontal line with a vertical line segment at the left end, and a small circle at the top of the vertical line, representing the first step.
- Diagram 3: A horizontal line with a vertical line segment at the left end, and a small circle at the top of the vertical line, representing the second step.
- Diagram 4: A horizontal line with a vertical line segment at the left end, and a small circle at the top of the vertical line, representing the third step.
- Diagram 5: A horizontal line with a vertical line segment at the left end, and a small circle at the top of the vertical line, representing the fourth step.
- Diagram 6: A horizontal line with a vertical line segment at the left end, and a small circle at the top of the vertical line, representing the fifth step.
- Diagram 7: A horizontal line with a vertical line segment at the left end, and a small circle at the top of the vertical line, representing the sixth step.
- Diagram 8: A horizontal line with a vertical line segment at the left end, and a small circle at the top of the vertical line, representing the seventh step.
- Diagram 9: A horizontal line with a vertical line segment at the left end, and a small circle at the top of the vertical line, representing the eighth step.
- Diagram 10: A horizontal line with a vertical line segment at the left end, and a small circle at the top of the vertical line, representing the ninth step.
- Diagram 11: A horizontal line with a vertical line segment at the left end, and a small circle at the top of the vertical line, representing the tenth step.
- Diagram 12: A horizontal line with a vertical line segment at the left end, and a small circle at the top of the vertical line, representing the eleventh step.
- Diagram 13: A horizontal line with a vertical line segment at the left end, and a small circle at the top of the vertical line, representing the twelfth step.
- Diagram 14: A horizontal line with a vertical line segment at the left end, and a small circle at the top of the vertical line, representing the thirteenth step.
- Diagram 15: A horizontal line with a vertical line segment at the left end, and a small circle at the top of the vertical line, representing the final step.

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$\frac{1}{x} - \frac{1}{x^2} \Delta \triangleleft x + \frac{1}{x} = \frac{1}{x} + \frac{1}{x^2} \Delta x + \frac{1}{x^2} \Delta x + \frac{1}{x^2} \Delta x$

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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 final result is that the GCD of 12 and 18 is 6.

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

[illegible]

$\begin{array}{ccccccc} A \otimes A & A + A + A & \Delta A + & A \cdot A \Delta A & A \Delta A & + A \\ \Delta A \otimes A & \Delta A \Delta A & \Delta A & + A + \end{array}$

[illegible]

$\frac{A}{B} \times \frac{C}{D} = \frac{A \cdot C}{B \cdot D}$

[illegible]

$\Delta A A \quad A + A \Delta A A A \quad A + A A A + \Delta A \quad + A \Delta A A \Delta A \quad A A + A$
 $A \Delta A \quad A \Delta A \Delta A A A \Delta A \quad + A \Delta A A A \Delta A \quad A A A A A +$

[illegible]

$\frac{A}{\Delta} + \frac{B}{\Delta} = \frac{A+B}{\Delta}$

[illegible]

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

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The diagrams show the following steps:

- $18 \div 12 = 1$ remainder 6
- $12 \div 6 = 2$ remainder 0
- $6 \div 6 = 1$ remainder 0
- The final result is 6 .

[illegible][illegible]

$\vdash \Delta \vdash A$

[illegible][illegible]

7.




























The sequence of diagrams shows the construction of a triangle:

- Step 1: A horizontal line segment is drawn.
- Step 2: A vertical line segment is drawn from the left endpoint of the base.
- Step 3: A vertical line segment is drawn from the right endpoint of the base.
- Step 4: A vertical line segment is drawn from the right endpoint of the base.
- Step 5: A vertical line segment is drawn from the right endpoint of the base.
- Step 6: A vertical line segment is drawn from the right endpoint of the base.
- Step 7: A vertical line segment is drawn from the right endpoint of the base.
- Step 8: A vertical line segment is drawn from the right endpoint of the base.
- Step 9: A vertical line segment is drawn from the right endpoint of the base.
- Step 10: A vertical line segment is drawn from the right endpoint of the base.

[illegible][illegible][illegible][illegible]

[illegible]

$\begin{array}{ccccccc}
\text{十} & \text{一} & \text{二} & \text{三} & \text{四} & \text{五} & \text{六} \\
\text{七} & \text{八} & \text{九} & \text{十} & \text{一} & \text{二} & \text{三} \\
\text{四} & \text{五} & \text{六} & \text{七} & \text{八} & \text{九} & \text{十} \\
\text{一} & \text{二} & \text{三} & \text{四} & \text{五} & \text{六} & \text{七} \\
\text{八} & \text{九} & \text{十} & \text{一} & \text{二} & \text{三} & \text{四} \\
\text{五} & \text{六} & \text{七} & \text{八} & \text{九} & \text{十} & \text{一} \\
\text{二} & \text{三} & \text{四} & \text{五} & \text{六} & \text{七} & \text{八} \\
\text{九} & \text{十} & \text{一} & \text{二} & \text{三} & \text{四} & \text{五}
\end{array}$

[illegible]

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