

$$\begin{array}{c} \bigcirc \\ | \\ \bullet \\ | \\ \bigcirc \end{array} \cdot \begin{array}{c} \bigcirc \\ | \\ \bullet \\ | \\ \bigcirc \end{array} = \frac{1}{2} \begin{array}{c} \bigcirc \quad \bigcirc \\ \diagdown \quad \diagup \\ \bullet \end{array} + \frac{1}{2} \begin{array}{c} \bigcirc \quad \bigcirc \\ | \quad | \\ \bullet \end{array} + \frac{1}{2} \begin{array}{c} \bigcirc \quad \bigcirc \\ \diagup \quad \diagdown \\ \bullet \end{array}$$

Diagrammatic equation showing the decomposition of a product of two vertical structures into a sum of three structures.

The left side consists of two identical vertical structures, each with a white circle at the top, a black vertical line, a black dot, another black vertical line, and a red circle at the bottom. These are multiplied by a dot.

The right side is the sum of three terms, each preceded by a coefficient of $\frac{1}{2}$:

- Term 1: A white circle on the left and a white circle on the right. A black line connects the bottom of the left circle to a red circle. A red line connects the bottom of the right circle to the same red circle.
- Term 2: A white circle on the left and a white circle on the right. Two black lines connect the bottom of each white circle to a single red circle.
- Term 3: A white circle on the left and a white circle on the right. A red line connects the bottom of the left circle to a red circle. A black line connects the bottom of the right circle to the same red circle.