

Diagrammatic equation for the vertex V :

$$V \text{ (wavy line)} \bigcirc \text{ (wavy line)} V = \text{wavy line} \bigcirc \text{ (wavy line)} + \text{wavy line} \bigcirc \text{ (wavy line)} \bigcirc \text{ (wavy line)} + \dots$$

The diagram shows the vertex V (represented by a wavy line with arrows) connected to a loop (represented by a circle). The loop is initially empty. The equation states that this is equal to the sum of diagrams where the loop is filled with a green color, followed by a plus sign and a series of diagrams where the loop is filled with a green color and connected to another loop, and so on.