

$$\begin{aligned}
 & 3 \left( \text{Diagram 1} \right) + 1 \left( \text{Diagram 2} \right) + 3 \left( \text{Diagram 3} \right) + 2 \left( \text{Diagram 4} \right) + \frac{3}{2} \left( \text{Diagram 5} \right) \\
 & \text{Diagram 1: Two vertical lines, each with two endpoints.} \\
 & \text{Diagram 2: A central vertex with four lines extending to four endpoints in a cross shape.} \\
 & \text{Diagram 3: A central vertex with two lines extending to two endpoints below, and a loop above with two endpoints.} \\
 & \text{Diagram 4: Two vertices connected by a horizontal line. The left vertex has a loop above and one endpoint to the left. The right vertex has three endpoints to the right.} \\
 & \text{Diagram 5: Two vertices connected by a horizontal line. Each vertex has a loop above and two lines extending to two endpoints each, forming a cross shape on each side.}
 \end{aligned}$$

$$\begin{aligned}
 & + \frac{3}{4} \left( \text{Diagram 6} \right) + \frac{3}{2} \left( \text{Diagram 7} \right) + 1 \left( \text{Diagram 8} \right) + \frac{3}{2} \left( \text{Diagram 9} \right) \\
 & \text{Diagram 6: Two vertices connected by a horizontal line. Each vertex has a loop above and two lines extending to two endpoints each, forming a cross shape on each side.} \\
 & \text{Diagram 7: Two vertices connected by a horizontal line. Each vertex has a loop above and two lines extending to two endpoints each, forming a cross shape on each side.} \\
 & \text{Diagram 8: Two vertices connected by a horizontal line. Each vertex has a loop above and two lines extending to two endpoints each, forming a cross shape on each side.} \\
 & \text{Diagram 9: Two vertices connected by a horizontal line. Each vertex has a loop above and two lines extending to two endpoints each, forming a cross shape on each side.}
 \end{aligned}$$