

xcolor

$$\begin{aligned} 1 \cdot (u + v) &\stackrel{\text{VS.Distrib-Vector}}{=} (1 \cdot u + 1 \cdot v) && \text{(Scalar multiplication distributes over vector addition)} \\ 1 \cdot u &\stackrel{\text{VS.Scalar.Id}}{=} u && \text{(Scalar multiplication identity)} \\ 1 \cdot v &\stackrel{\text{VS.Scalar.Id}}{=} v && \text{(Scalar multiplication identity)} \\ (1 \cdot u + 1 \cdot v) &\stackrel{\text{VS.Scalar.Id}}{=} (u + v) && \text{(Scalar multiplication identity)} \end{aligned}$$