

$$\begin{aligned}\vec{V}(d_1) \cdot \vec{V}(d_2) &= (13.1 * 11.4) + (3.0 * 8.3) + (2.3 * 2.3) + (0 * 11.2) + (17.7 * 0) + (0.5 * 0) + (1.2 * 0) \\ &= 179.53\end{aligned}$$