$$\vec{\mathbf{v}}_{PC} = (2.0\ \hat{\mathbf{i}} + 3.0\ \hat{\mathbf{j}})\ \text{m/s} + 4.0\ \hat{\mathbf{k}}\ \text{m/s} + 2.0\ \hat{\mathbf{j}}\ \text{m/s} = (2.0\ \hat{\mathbf{i}} + 5.0\ \hat{\mathbf{j}} + 4.0\ \hat{\mathbf{k}})\ \text{m/s}$$