**1.1** What are the Cartesian coordinates of point P in frame  $\mathcal{I}$ , as shown in Figure 1.5?

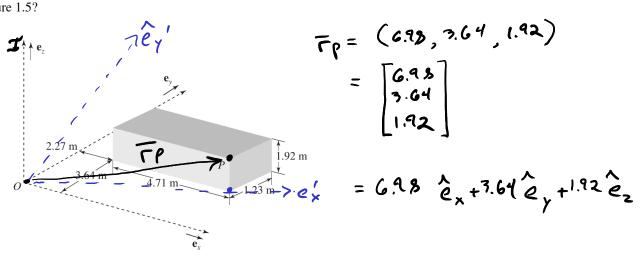


Figure 1.5 Problem 1.1.

## **1.2** Sketch and label the vectors $\mathbf{r}_{P/O}$ , $\mathbf{r}_{P/Q}$ , $\mathbf{r}_{Q/P}$ in Figure 1.6.

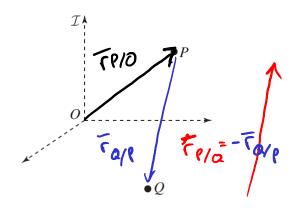


Figure 1.6 Problem 1.2.

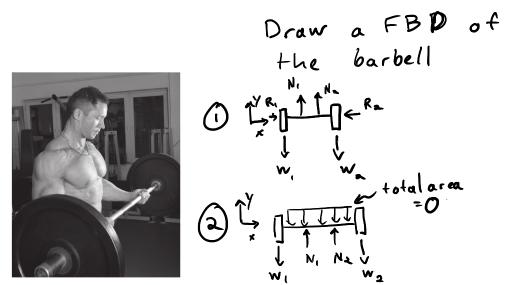


Figure 2.14 Problem 2.6. Image courtesy of Shutterstock.

