

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

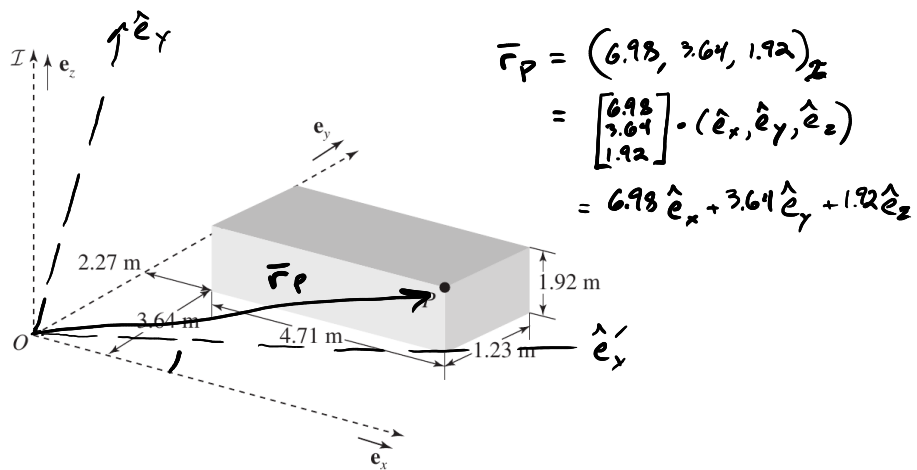
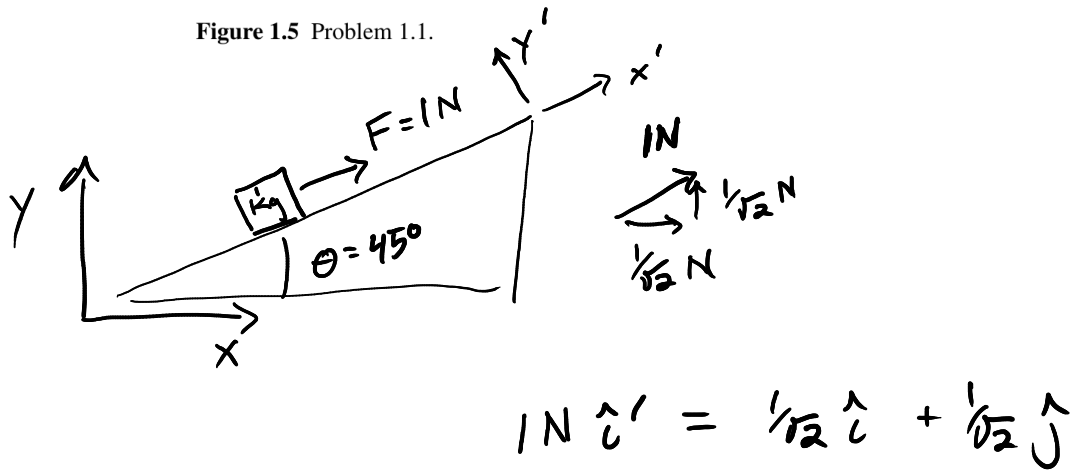


Figure 1.5 Problem 1.1.



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

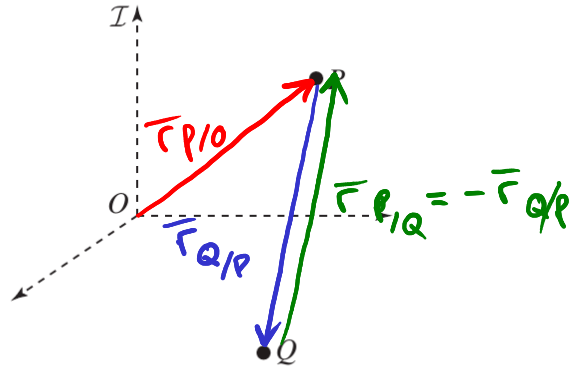


Figure 1.6 Problem 1.2.

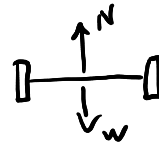
$\mathbf{r}_{P/O}$
↓
position of P with respect to O

Draw FBD of barbell

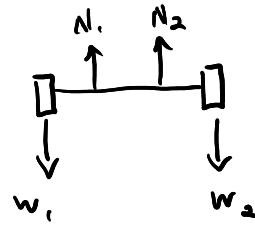


Figure 2.14 Problem 2.6. Image courtesy of Shutterstock.

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