## DISPLACEMENT VECTORS - ANSWERS

Given points $P$ and $Q$, find the displacement vector $\overrightarrow{P Q}$.

1. $\quad P=(1,0,3)$ and $Q=(0,2,4)$ $\overrightarrow{P Q}=-\hat{i}+2 \hat{j}+\hat{k}$
2. $\quad P=(2,3,4)$ and $Q=(5,3,8)$
$\overrightarrow{P Q}=3 \hat{i}+4 \hat{k}$
3. $\quad P=(-4,3,-8)$ and $Q=(1,2,3)$
$\overrightarrow{P Q}=5 \hat{i}-\hat{j}+11 \hat{k}$
4. $\quad P=(-2,-3,4)$ and $Q=(5,3,8)$
$\overrightarrow{P Q}=7 \hat{i}+6 \hat{j}+4 \hat{k}$
5. $\quad P=(2,3,0)$ and $Q=(2,3,5)$ $\overrightarrow{P Q}=5 \hat{k}$
