Sect.04_V1

Name:	
ID:	
Total Score (out of 10 pts):	

^{-4/10} points for attending- so make sure you put your name!

Question 1 (3/10 points)

What is the difference between accuracy and precision? Please be as concise as possible!

Solution 1

Accuracy defines difference from the actual value of the quantity being measured while precision defines the certainty in a measurement. A measurement can be precise but not necessarily accurate.

Question 2 (3/10 points)

Please add the following vectors and write the resultant vector \vec{R} (\hat{i} , \hat{j} and \hat{k} denotes unit vectors along x, y and z directions, respectively) :

$$\vec{A}=5\hat{\imath}+3\hat{\jmath}+2\hat{k}$$
 and $\vec{B}=2\hat{\imath}+2\hat{\jmath}+3\hat{k}$

Solution 2

$$\vec{R} = \vec{A} + \vec{B} = (5+2)\hat{\imath} + (3+2)\hat{\jmath} + (2+3)\hat{k} = 7\hat{\imath} + 5\hat{\jmath} + 5\hat{k}$$