**Activity Magnitude of a vector**

1. Calculate the magnitude of the following vectors. Correct all non-exact answers to 3 significant figures.
2. $\vec{AB}$ $= \left(\genfrac{}{}{0pt}{}{3}{4}\right)$
3. $\vec{CD}$ $= \left(\genfrac{}{}{0pt}{}{-1}{7}\right)$
4. $\vec{EF}$ $= \left(\genfrac{}{}{0pt}{}{0}{5}\right)$
5. $\vec{GH}$ $= \left(\genfrac{}{}{0pt}{}{-2}{-5}\right)$
6. $\vec{IJ}= \left(\genfrac{}{}{0pt}{}{12.5}{9.3}\right)$
7. De Vector $\vec{XY}$ = $\left(\genfrac{}{}{0pt}{}{6}{x}\right)$ and has a magnitude of 11 units. Calculate the value of $x.$

**Answer Key**

1)

a) 5 units

b) 7.07 units

c) 5 units

d) 5.39 units

e) 15.6 units

2) 9.22 units