## Investigation

Distance Formula: the distance between points $A\left(x_{1}, y_{1}\right)$ and $B\left(x_{2}, y_{2}\right)$ is given by
$(A B)^{2}=\left(x_{2}-x_{1}\right)^{2}+\left(y_{2}-y_{1}\right)^{2}$ or $A B=\sqrt{\left[\left(x_{2}-x_{1}\right)^{2}+\left(y_{2}-y_{1}\right)^{2}\right]}$

