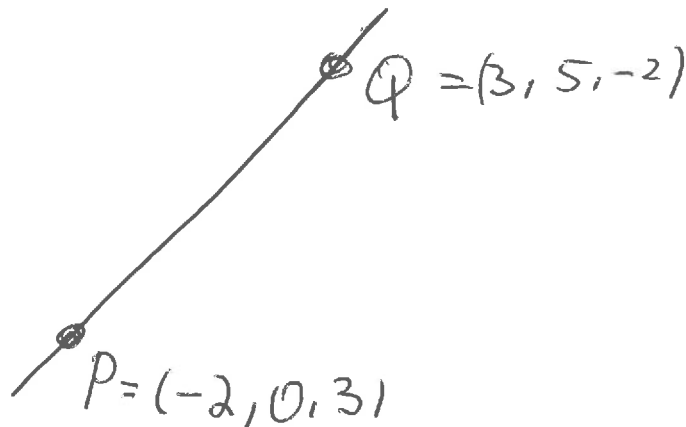**No calculators, cell phones, computers, notes, etc.**

Circle your answer. Make your work correct, complete and coherent.

The quiz is worth 5 points. The solutions will be posted on my website later today.

Quiz 2, January 29, 2019

Find parametric equations for the line through $P = (-2, 0, 3)$ and $Q = (3, 5, -2)$.

$Q = (3, 5, -2)$

$P = (-2, 0, 3)$

$\overrightarrow{PQ} = 5\vec{\imath} + 5\vec{\jmath} - 5\vec{k}$

The line through $(-2, 0, 3) \parallel$ to $5\vec{\imath} + 5\vec{\jmath} - 5\vec{k}$

is

$\boxed{\begin{array}{l} X = -2 + 5t \\ Y = 0 + 5t \\ Z = 3 - 5t \end{array}}$

Check when $t = 0$ the point is
$(-2, 0, 3)$

when $t = 1$, the point is
$(3, 5, -2$