## Answer on Question \#46122 - Math - Algebra

We have given line:
$(-2 ;-2)$ and $(0 ; 0)$ - points on the line.
Equation of the given line :
$y-y_{1}=\frac{y_{2}-y_{1}}{x_{2}-x_{1}}\left(x-x_{1}\right)$
So, $y=x$ - equation of the given line.
A) equation of the parallel line will have form like this:
$y=x+C$, Where $C-$ constant
For example:
$y=x+5$
$y=x+22$
$y=x+65$
So we have infinite number of parallel lines

## B)

Equation of the line that is perpendicular to the line:
$y=-x+C$
For example:
$y=-x+5$
$y=-x+44$
$y=-x+625$
In this case we also have infinite number of perpendicular lines.

