Answer on Question #46122 - Math - Algebra

We have given line:

(-2; -2) and (0; 0) — points on the line.

Equation of the given line:

$$y - y_1 = \frac{y_2 - y_1}{x_2 - x_1} (x - x_1)$$

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.