Parallel & Perpendicular
(Writing Equations of Lines)

Directions:
A) Go to https://www.geogebra.org/m/ThcQejMS.
B) For each problem that is generated after clicking the New Problem button, copy the specific details of the problem down in the blanks provided.
C) Show your work you do to solve each problem in the space provided.
D) Type in the equation of the described line in the text field provided. If you type in a correct equation, you’ll see a big pink “CORRECT !!!” sign appear. If you don’t get the problem correct, don’t go to a new problem—find your mistake(s) and fix them!

Determine the equation of the indicated line that passes through the indicated point AND is _______________ to the line with the given equation.

\(( , )\) \hspace{2cm} \(y = \)  
Fill in coordinates of point \hspace{2cm} Write equation of given line here

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\(( , )\) \hspace{2cm} \(y = \)  
Fill in coordinates of point \hspace{2cm} Write equation of given line here
Determine the equation of the indicated line that passes through the indicated point AND is ________________ to the line with the given equation.

\[(\ ,\ )\] \[y = \]

Fill in coordinates of point \hspace{1cm} Write equation of given line here

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\[ (\text{ , }\text{ , }) \quad y = \]

Fill in coordinates of point

Write equation of given line here

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\[ (\text{ , }\text{ , }) \quad y = \]

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\[ (\text{ , }\text{ , }) \quad y = \]

Fill in coordinates of point

Write equation of given line here
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\[( , ) \quad y = \]

Fill in coordinates of point \hspace{1cm} Write equation of given line here

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