

The equation of a straight line when the coordinates of two points are given in the coordinate plane

## 좌표평면에서 두 점의 좌표가 주어졌을 때의 직선의 방정식

(The equation of a straight line when the coordinates of two points  
are given in the coordinate plane)

The equation of a straight line when the coordinates of two points are given in the coordinate plane

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$(x_1, y_1)$



The equation of a straight line when the coordinates of two points are given in the coordinate plane

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$$(x_2, y_2)$$

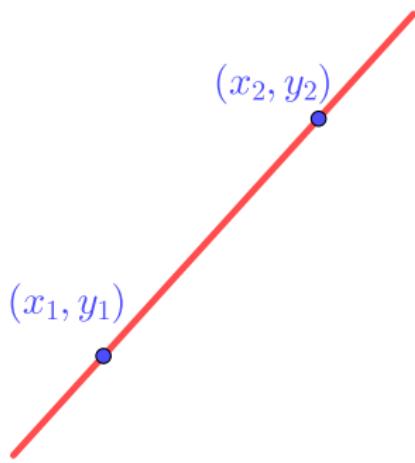


$$(x_1, y_1)$$



The equation of a straight line when the coordinates of two points are given in the coordinate plane

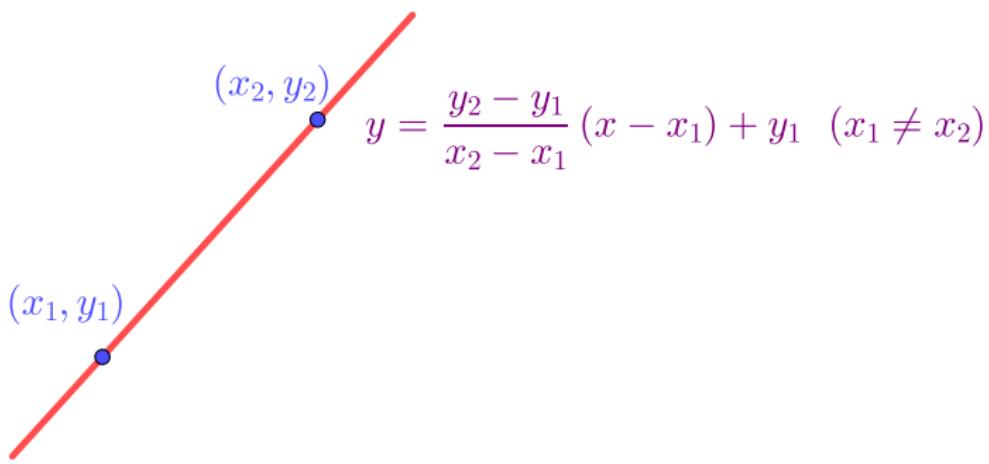
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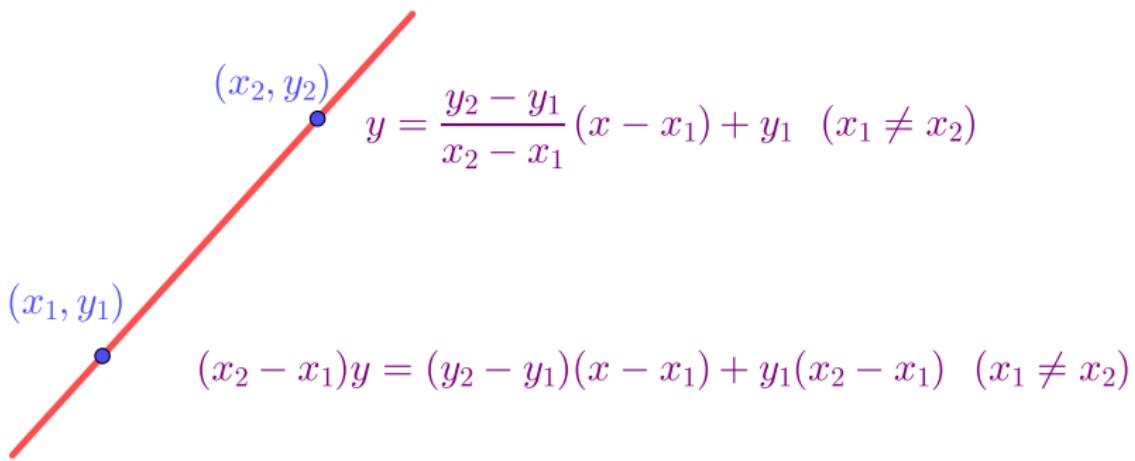
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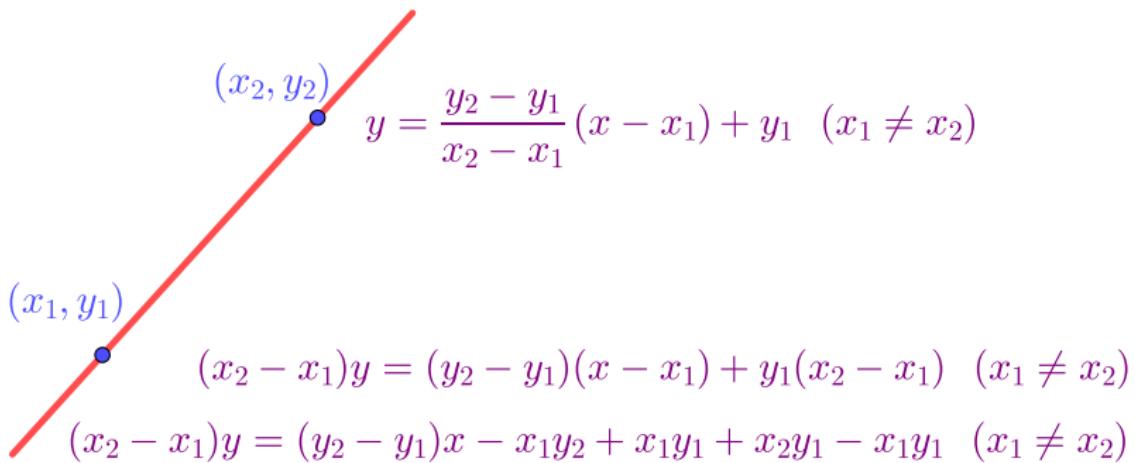
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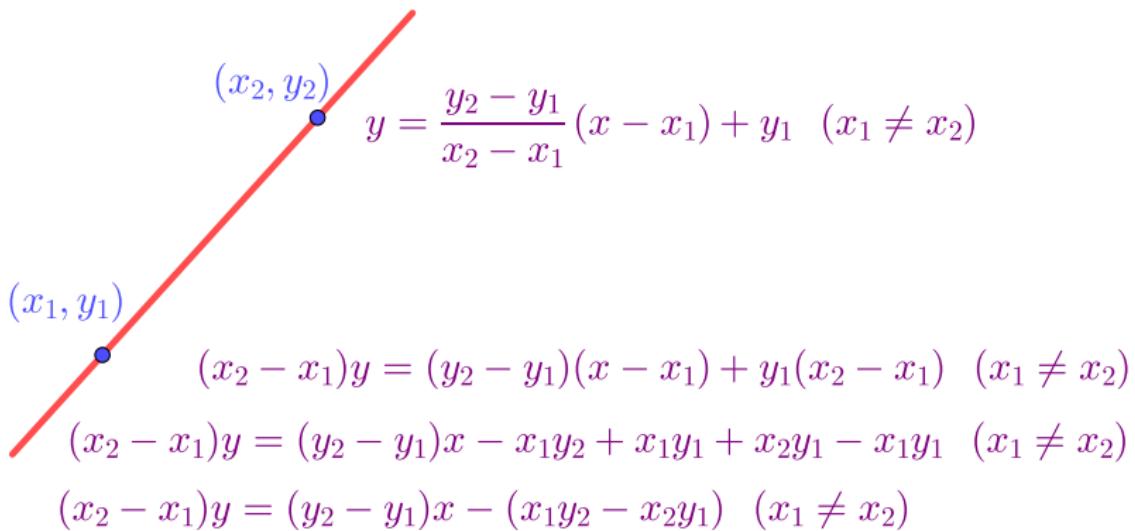
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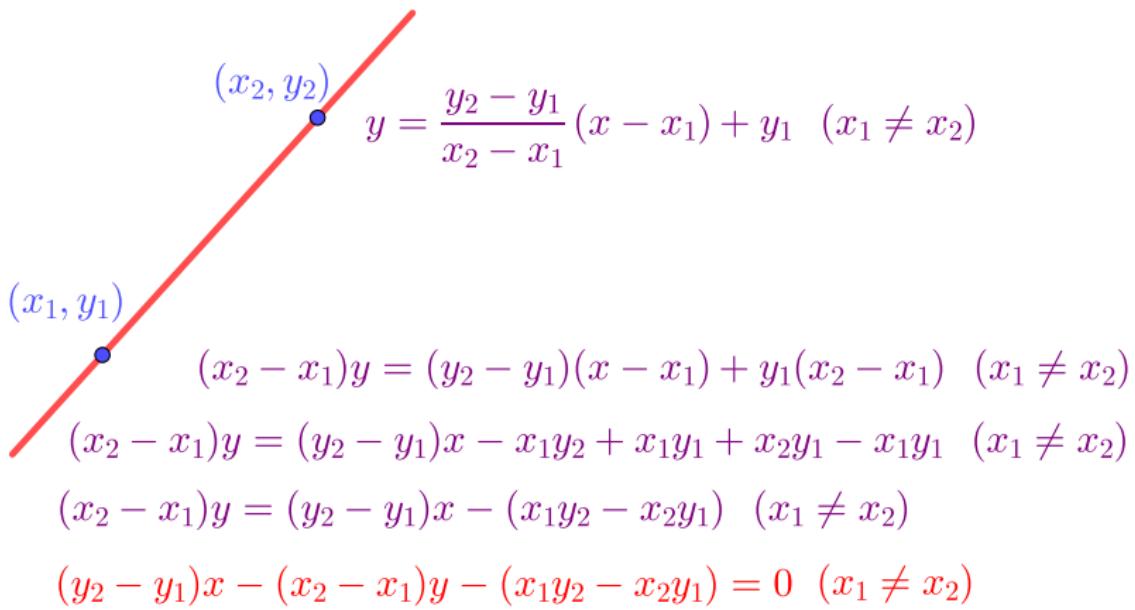
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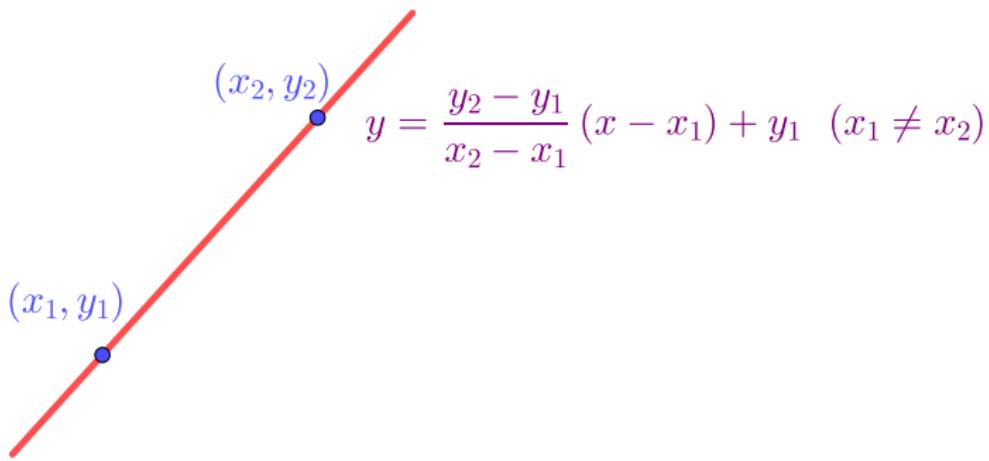
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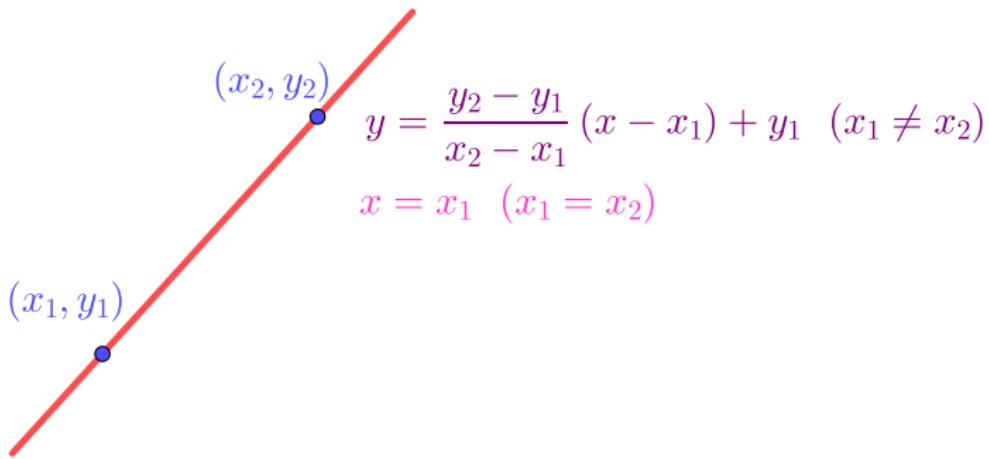


$$(y_2 - y_1)x - (x_2 - x_1)y - (x_1y_2 - x_2y_1) = 0 \quad (x_1 \neq x_2)$$

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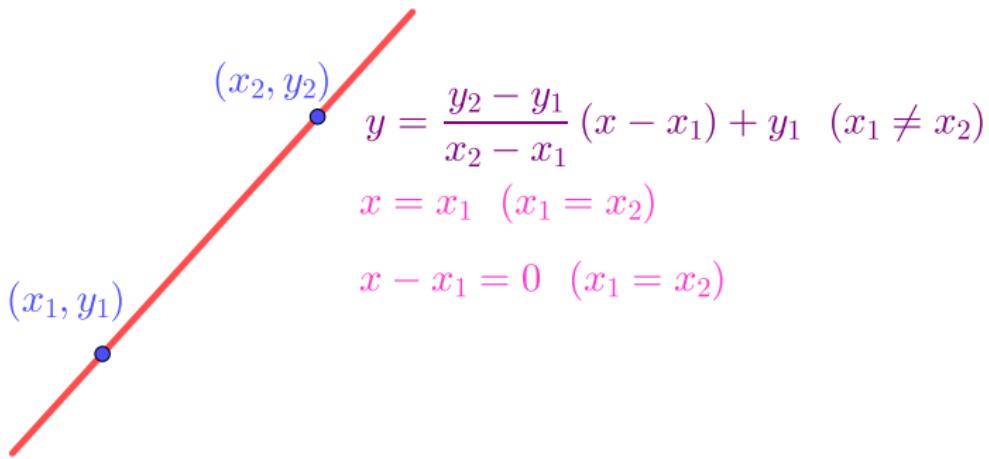


$$(y_2 - y_1)x - (x_2 - x_1)y - (x_1y_2 - x_2y_1) = 0 \quad (x_1 \neq x_2)$$

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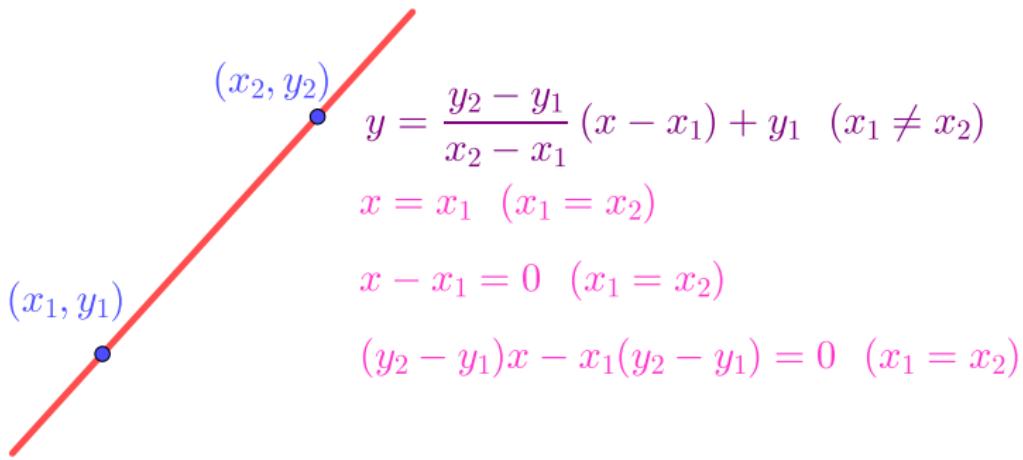


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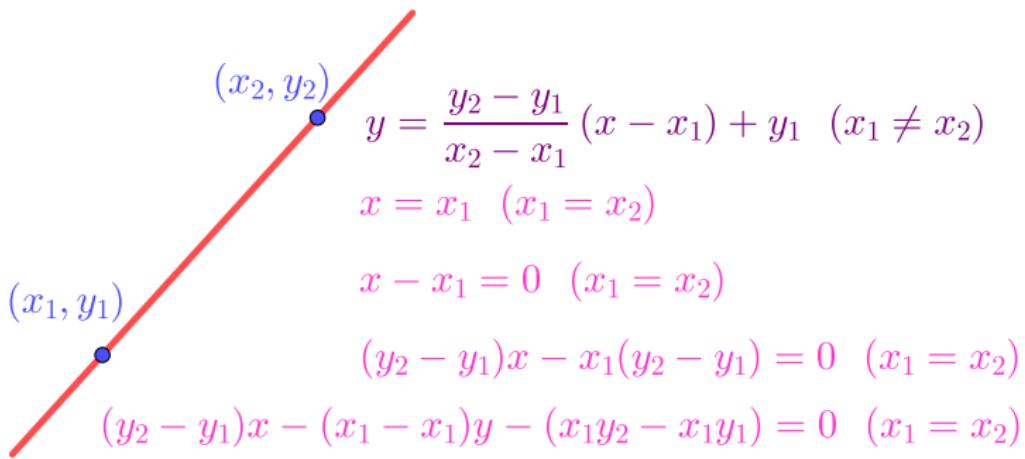


$$(y_2 - y_1)x - (x_2 - x_1)y - (x_1y_2 - x_2y_1) = 0 \quad (x_1 \neq x_2)$$

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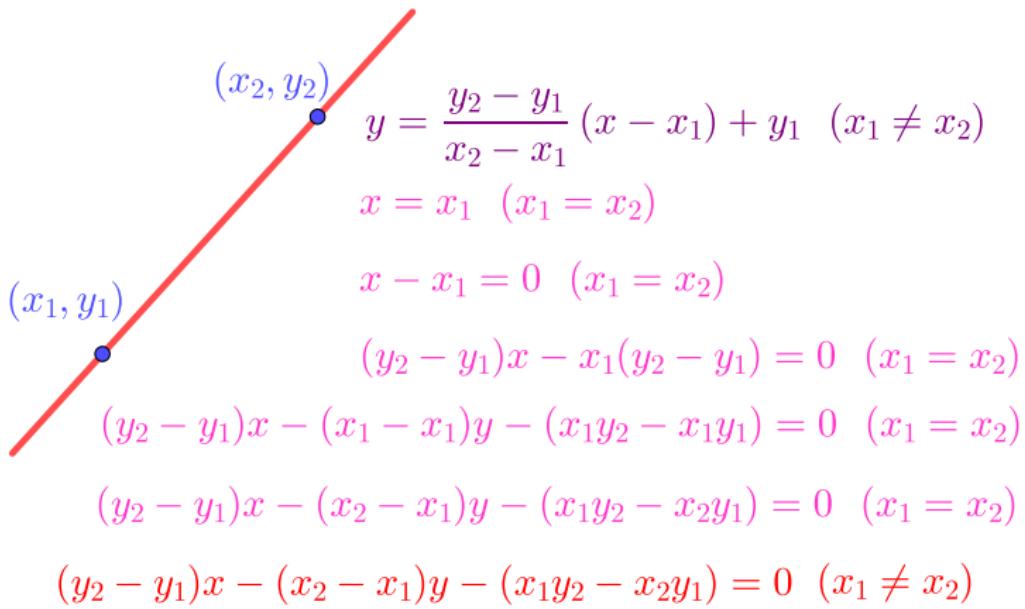


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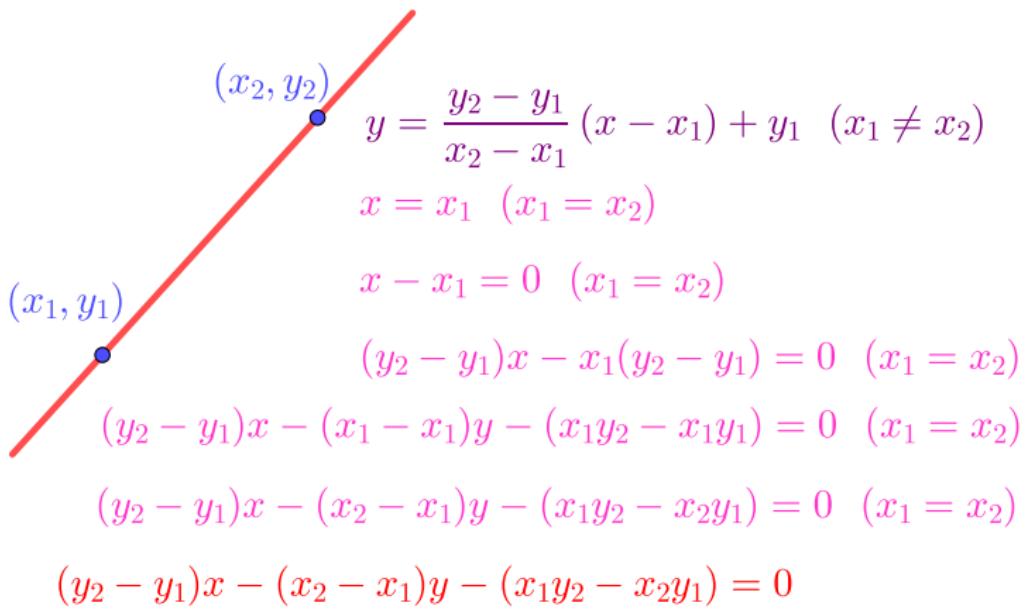
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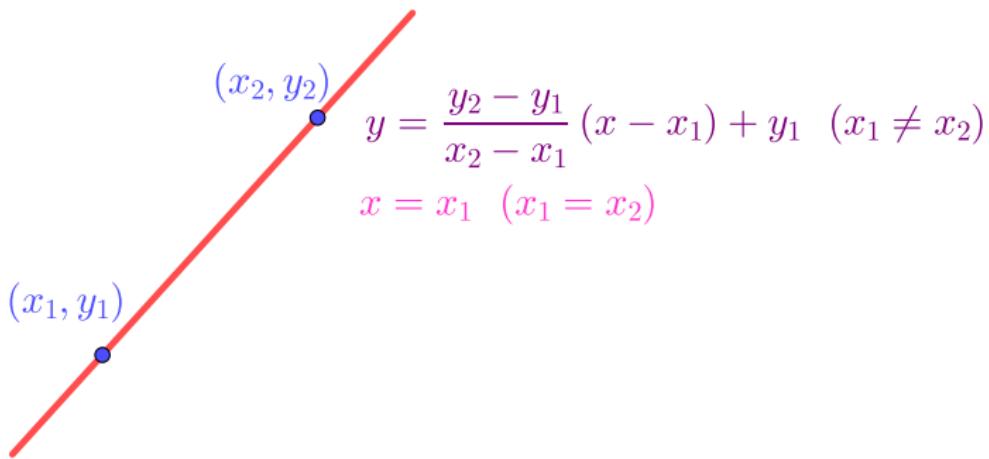
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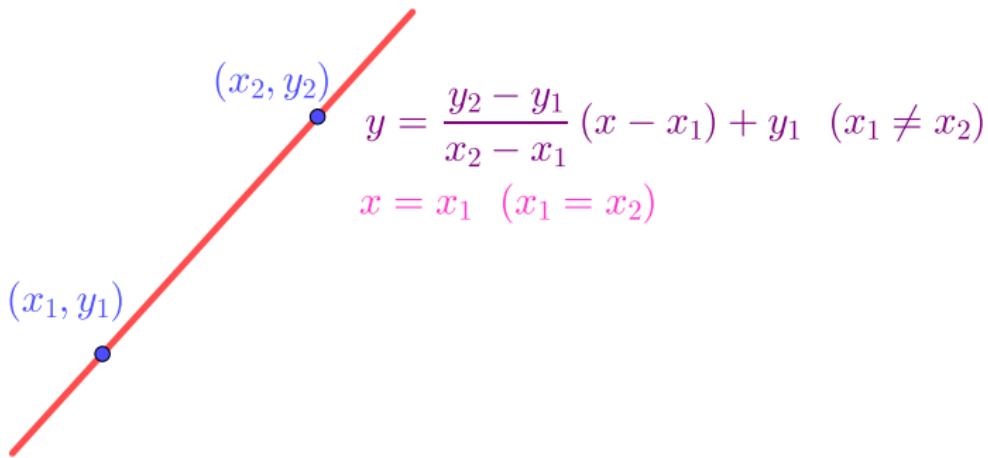


$$(y_2 - y_1)x - (x_2 - x_1)y - (x_1y_2 - x_2y_1) = 0$$

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$$\therefore (y_2 - y_1)x - (x_2 - x_1)y - (x_1y_2 - x_2y_1) = 0$$

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Github:

<https://min7014.github.io/math20210831001.html>

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and you can see a picture moving.