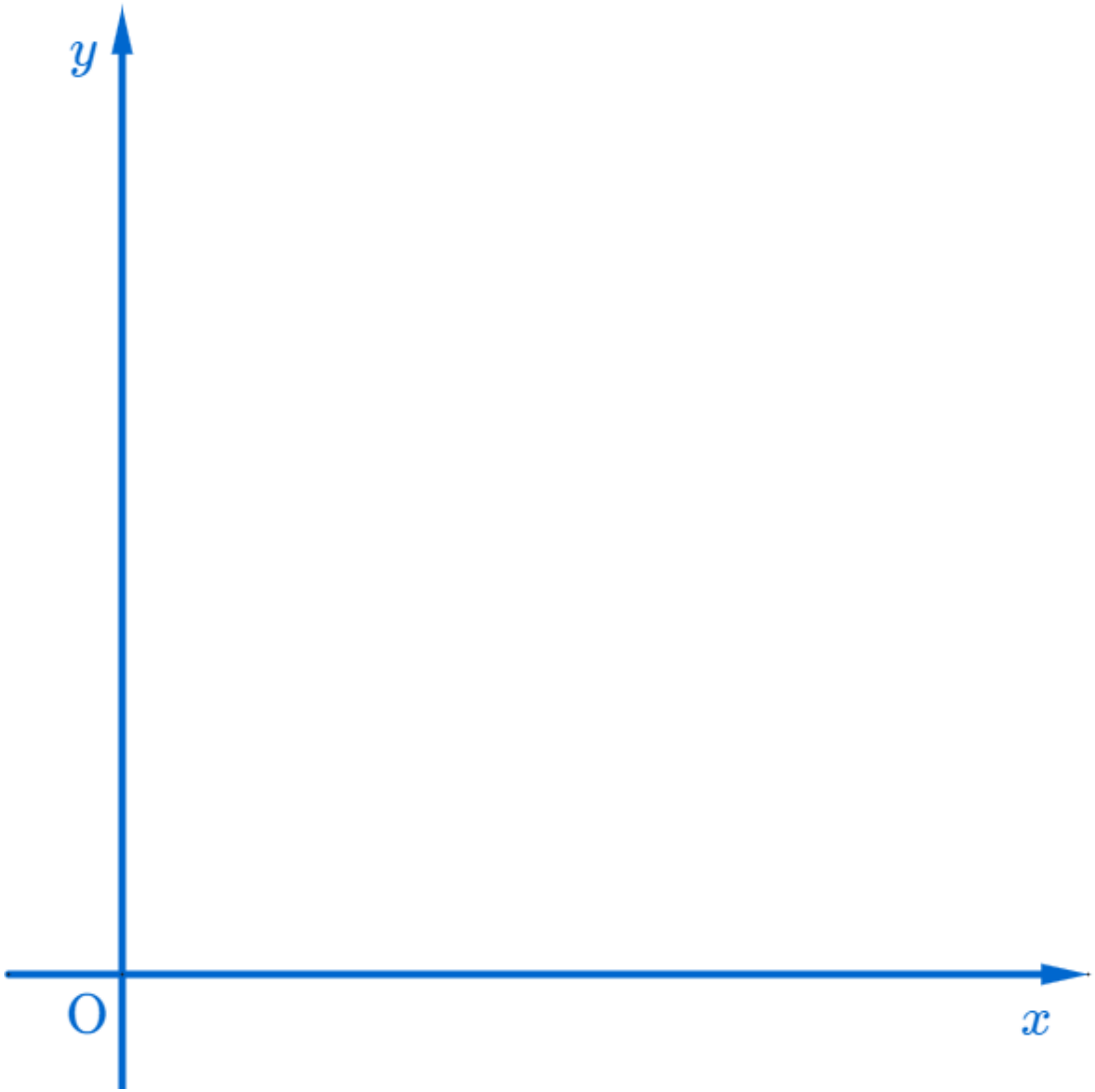
직교좌표평면 위의 두 점 사이의 거리
(The Distance Between Two Points On The Cartesian Plane)

The Distance Between Two Points On The Cartesian Plane

Start End

The Distance Between Two Points On The Cartesian Plane

Start End



The Distance Between Two Points On The Cartesian Plane

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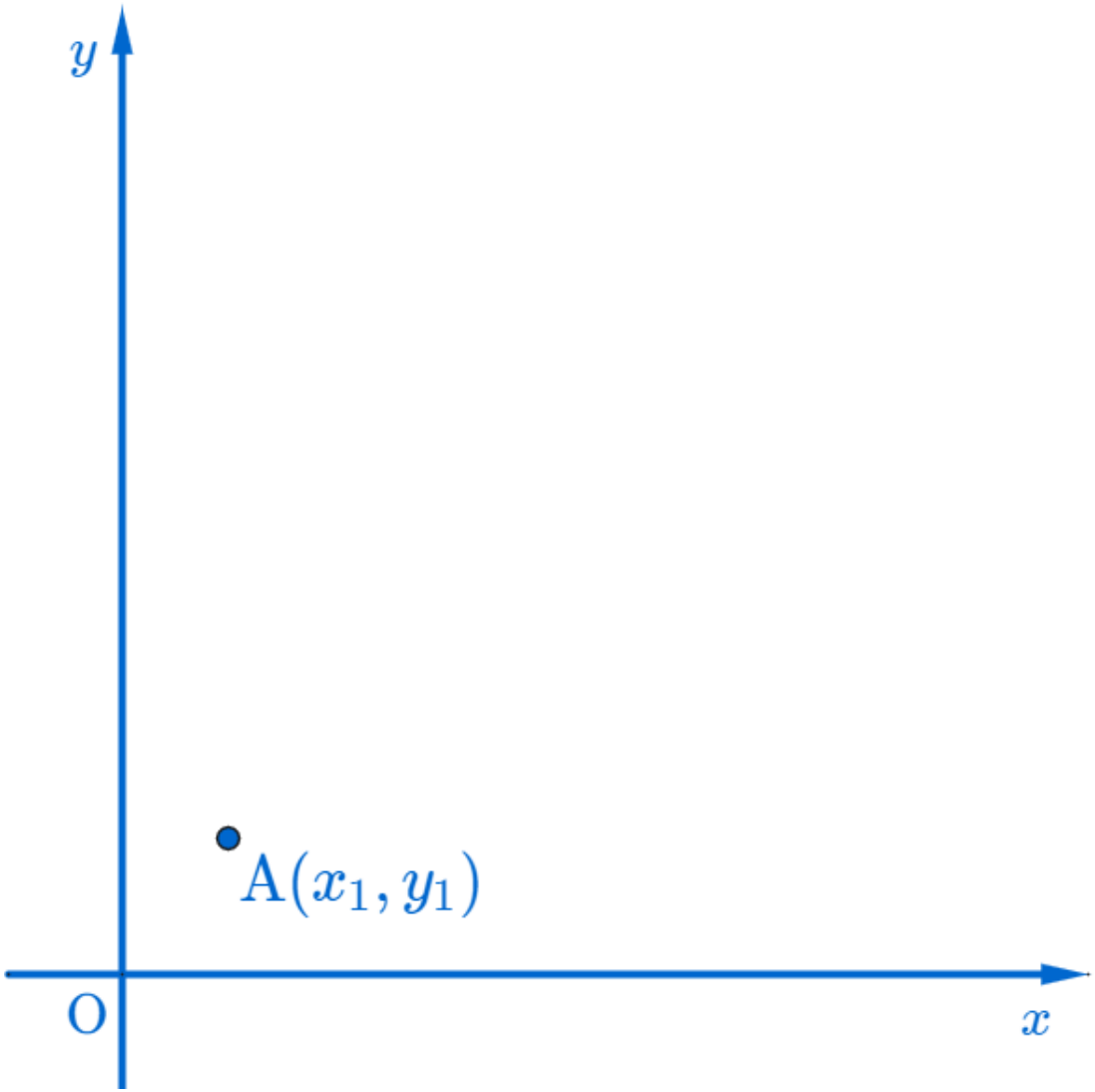

The Distance Between Two Points On The Cartesian Plane

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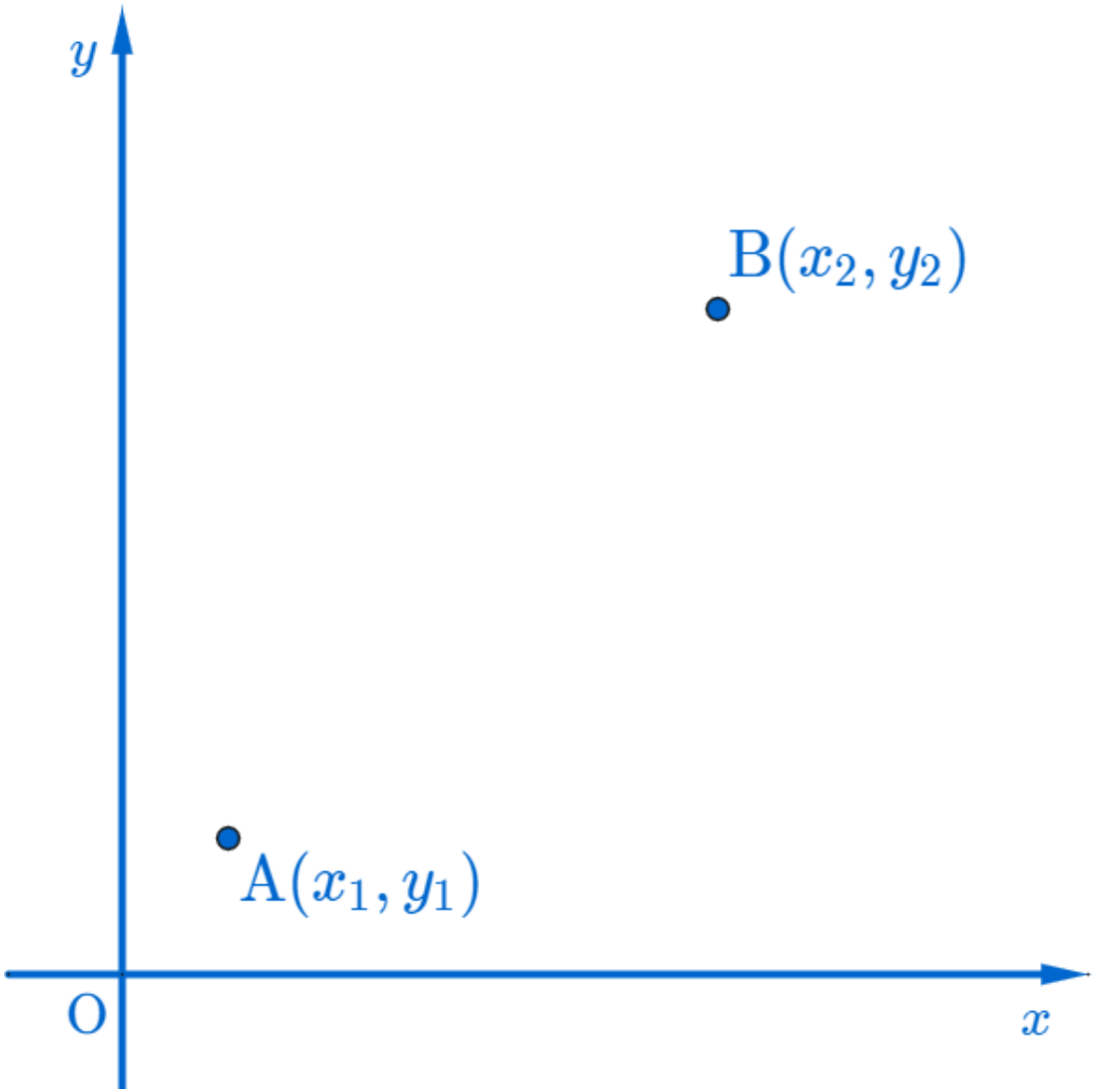

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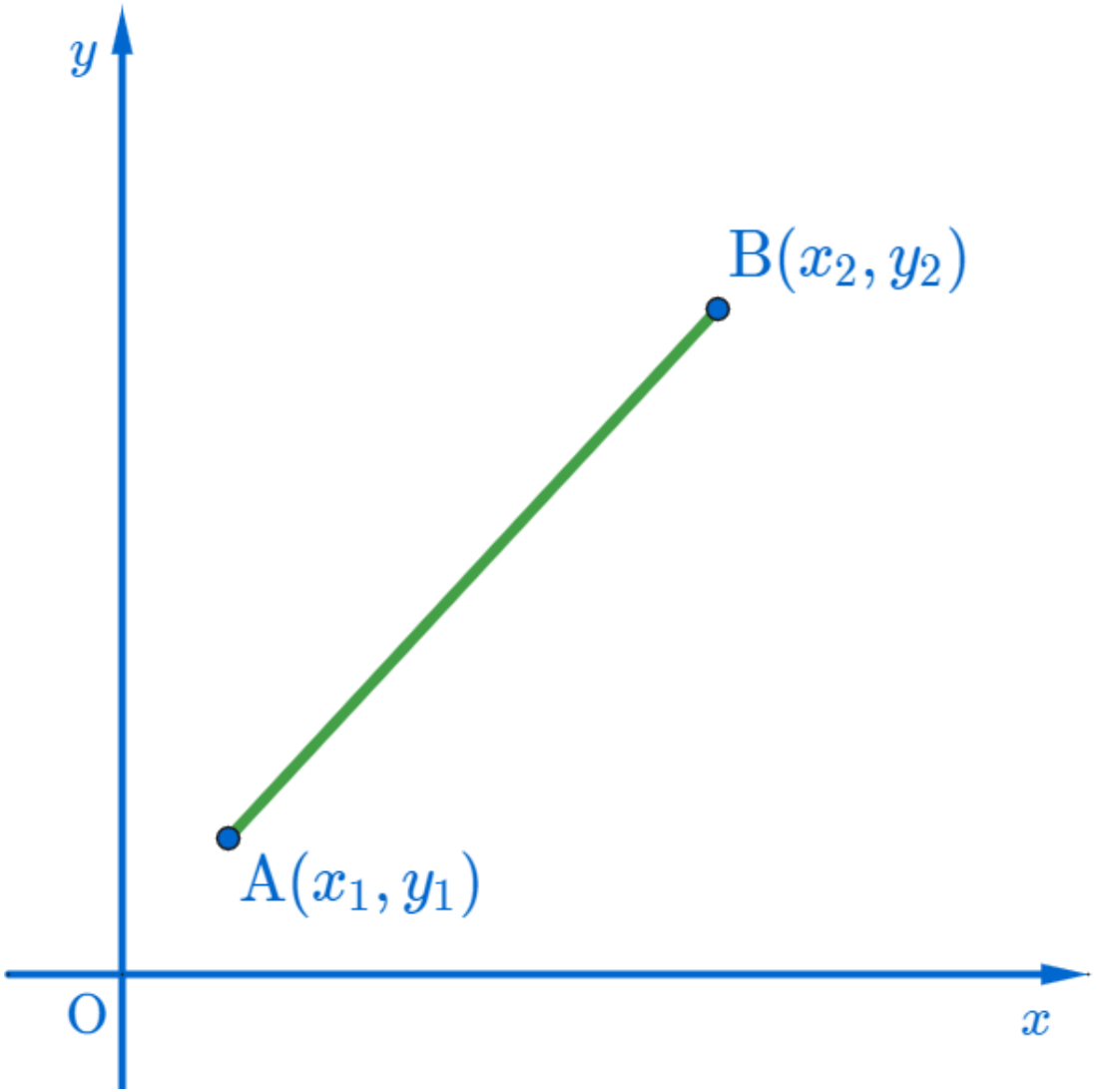

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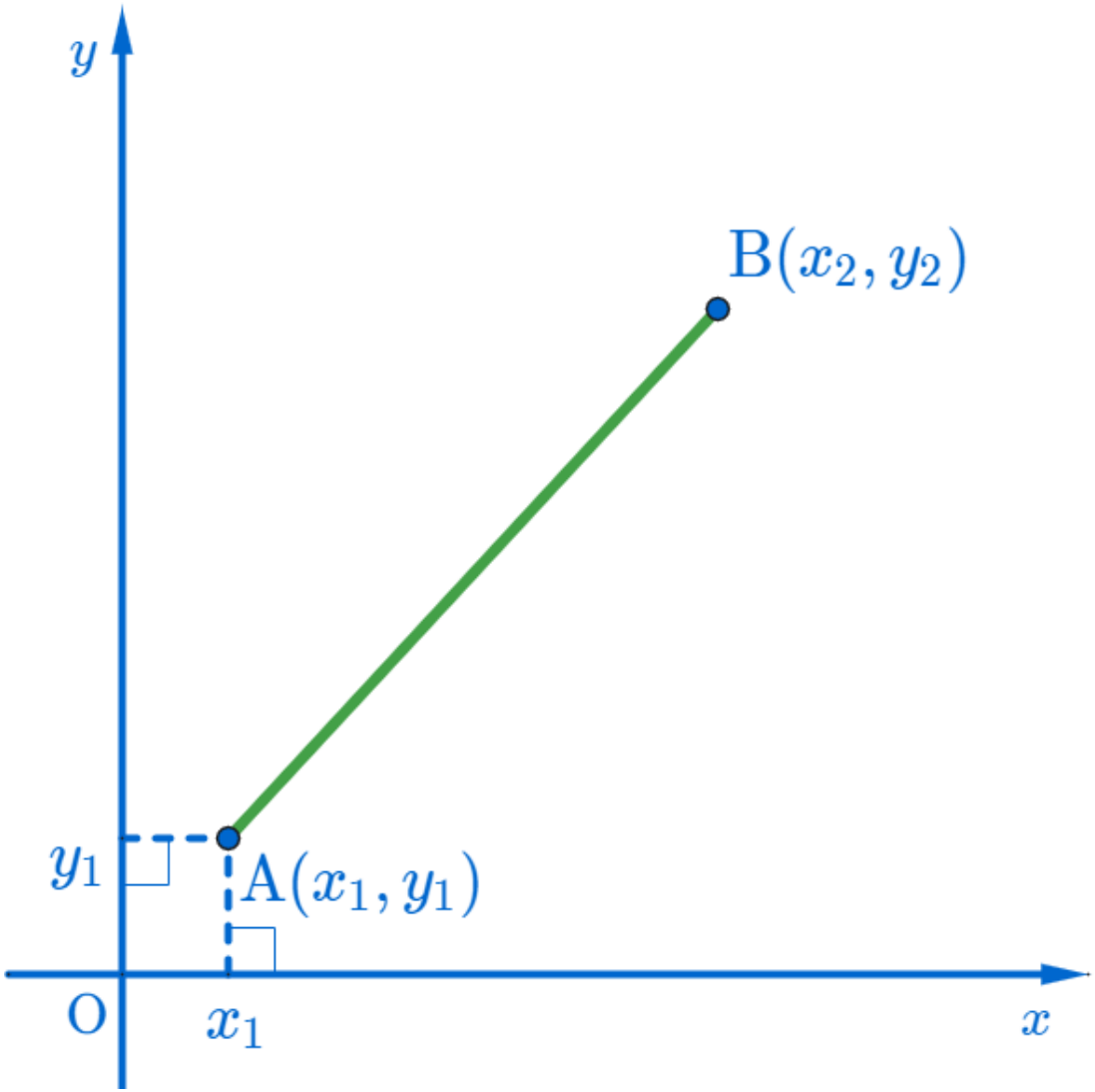

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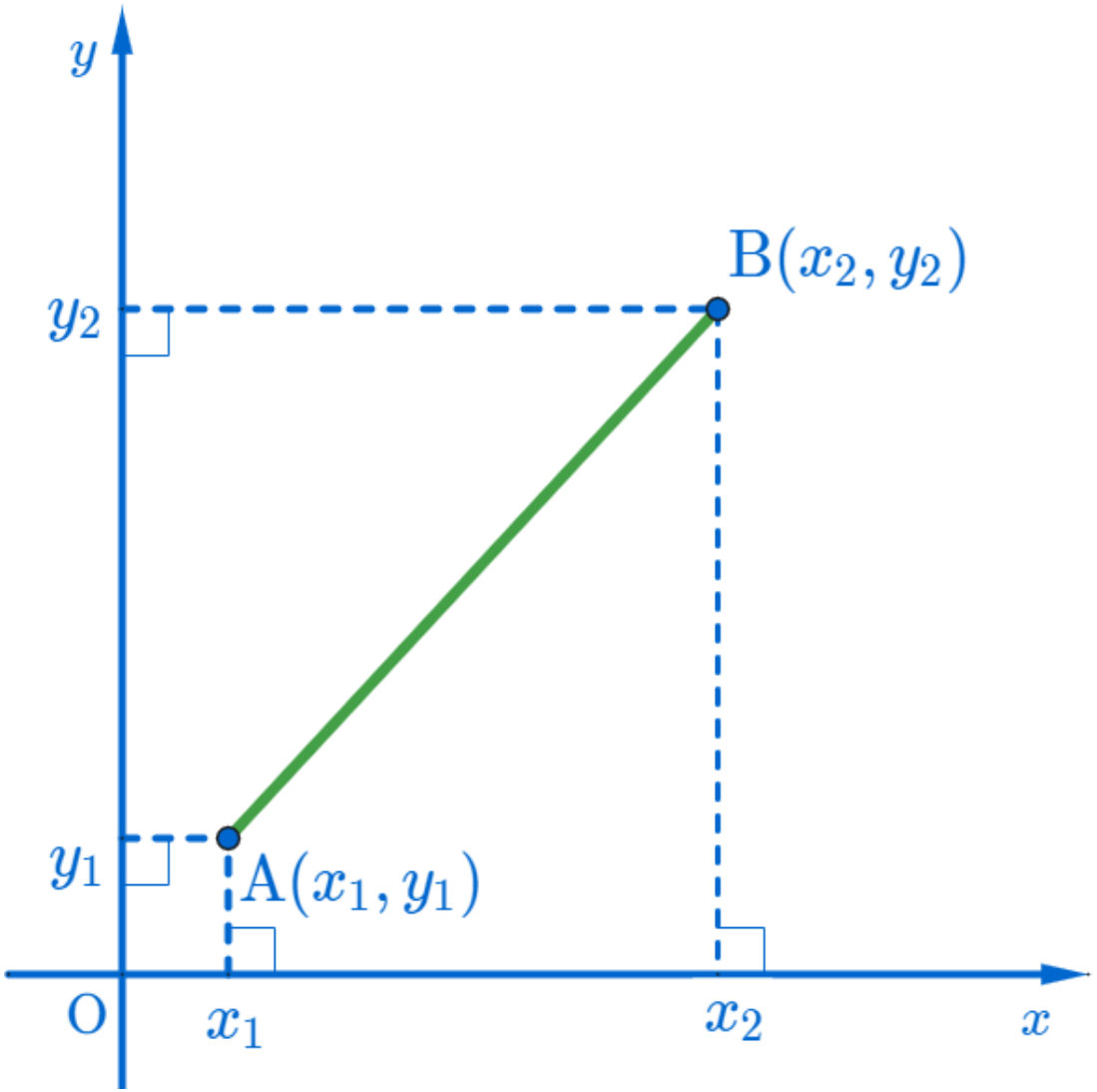

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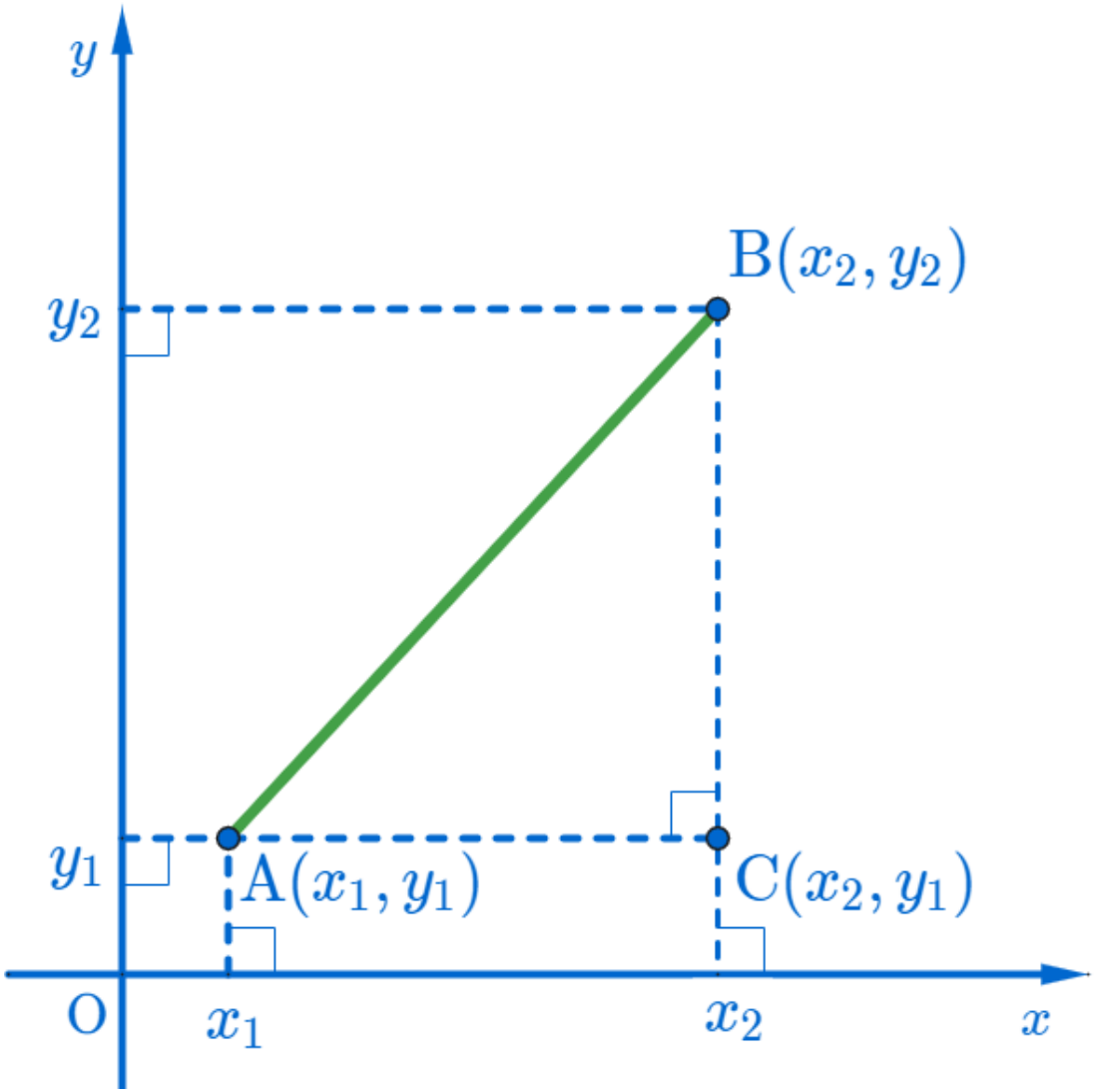

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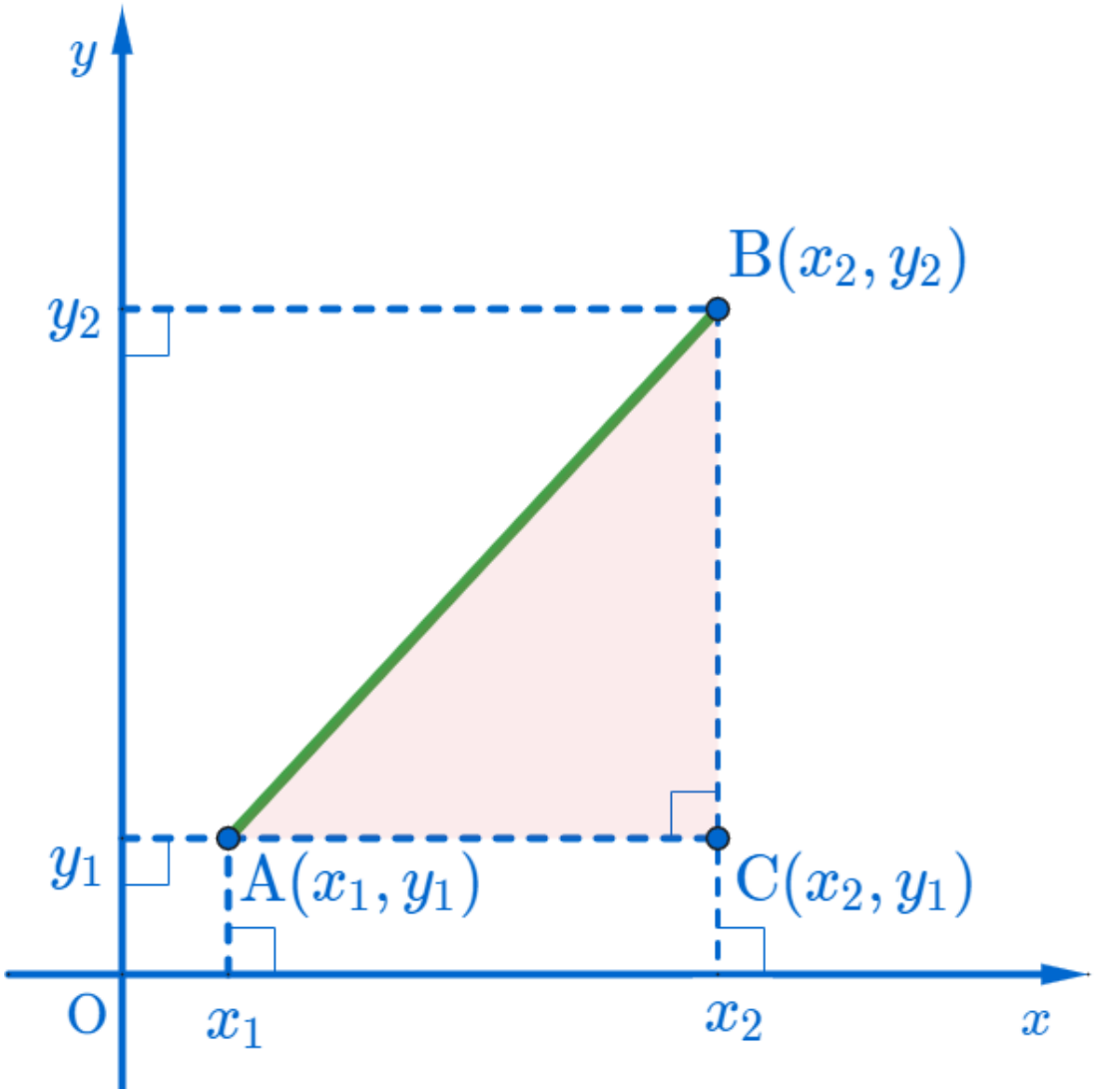
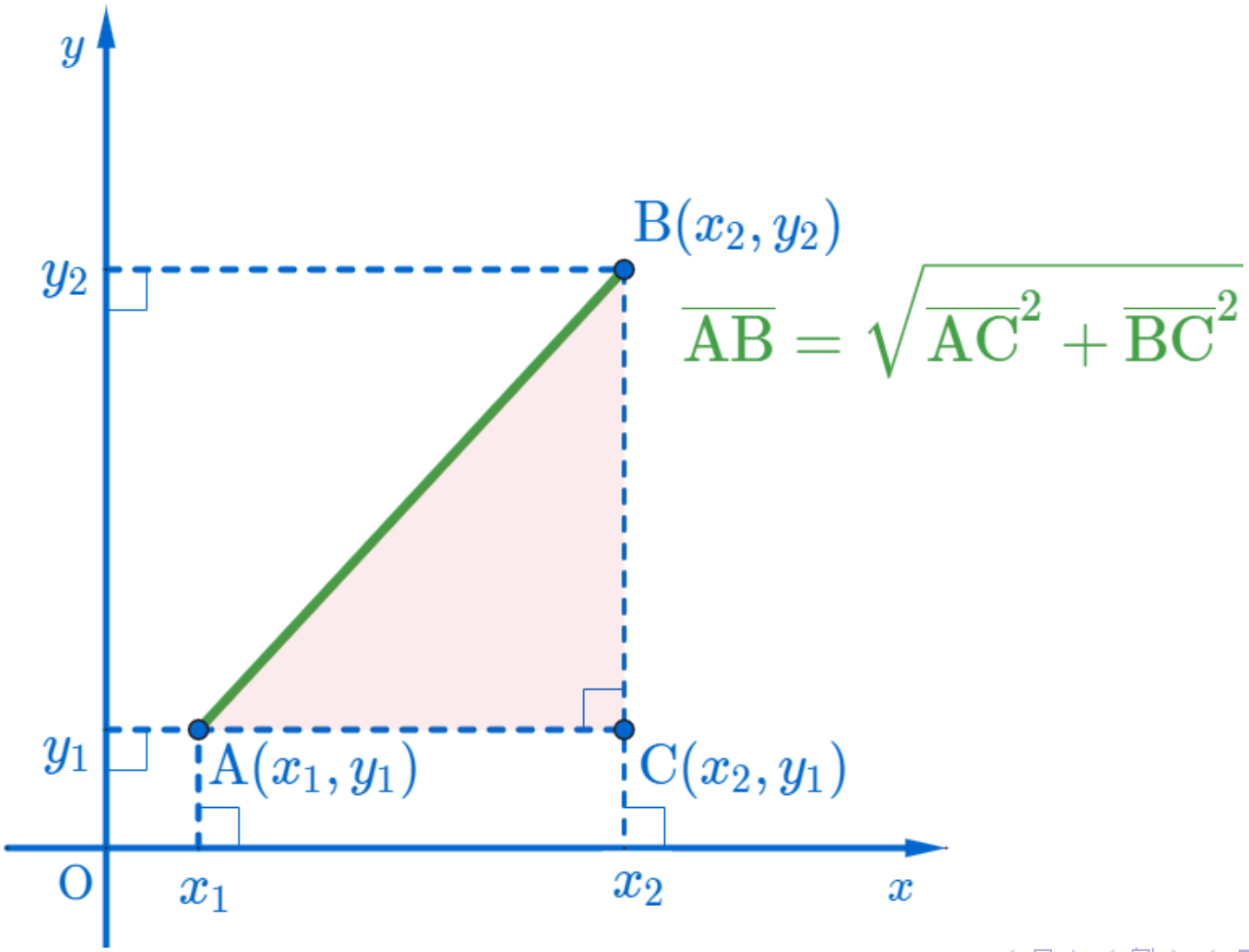
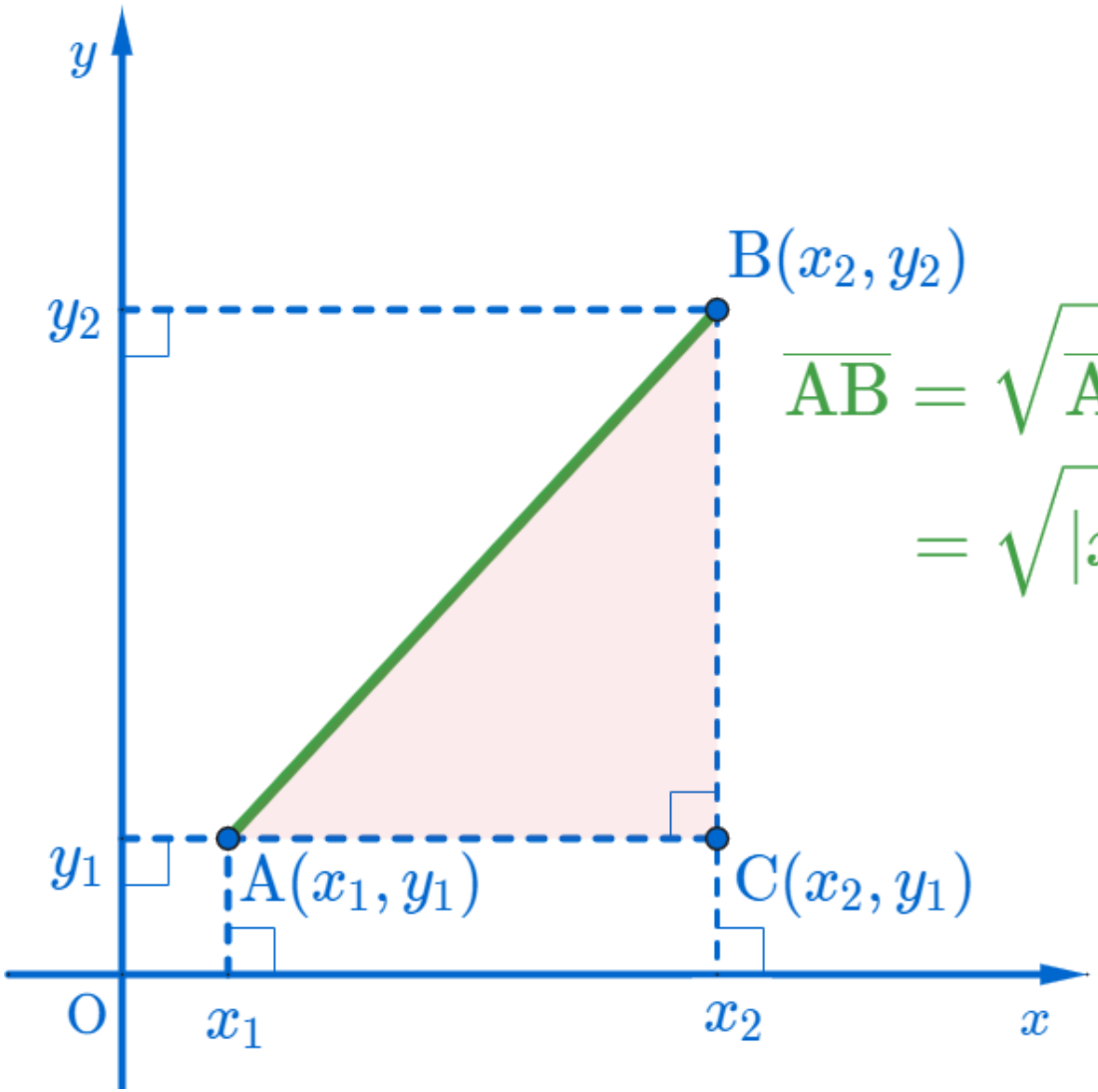


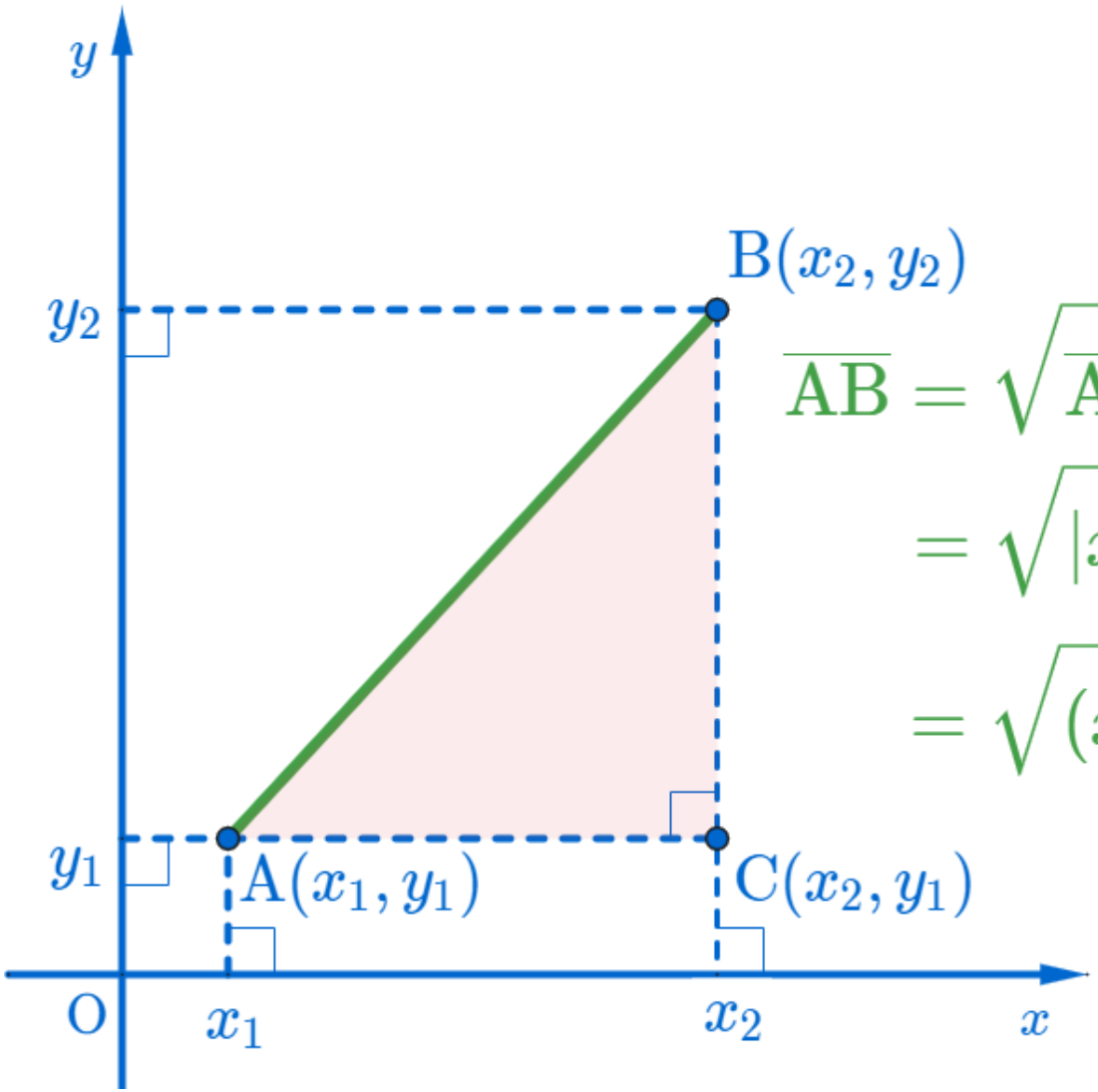


$$\overline{\mathrm{AB}} = \sqrt{\overline{\mathrm{AC}}^2 + \overline{\mathrm{BC}}^2}$$



$$\overline{\mathrm{AB}} = \sqrt{\overline{\mathrm{AC}}^2 + \overline{\mathrm{BC}}^2}$$

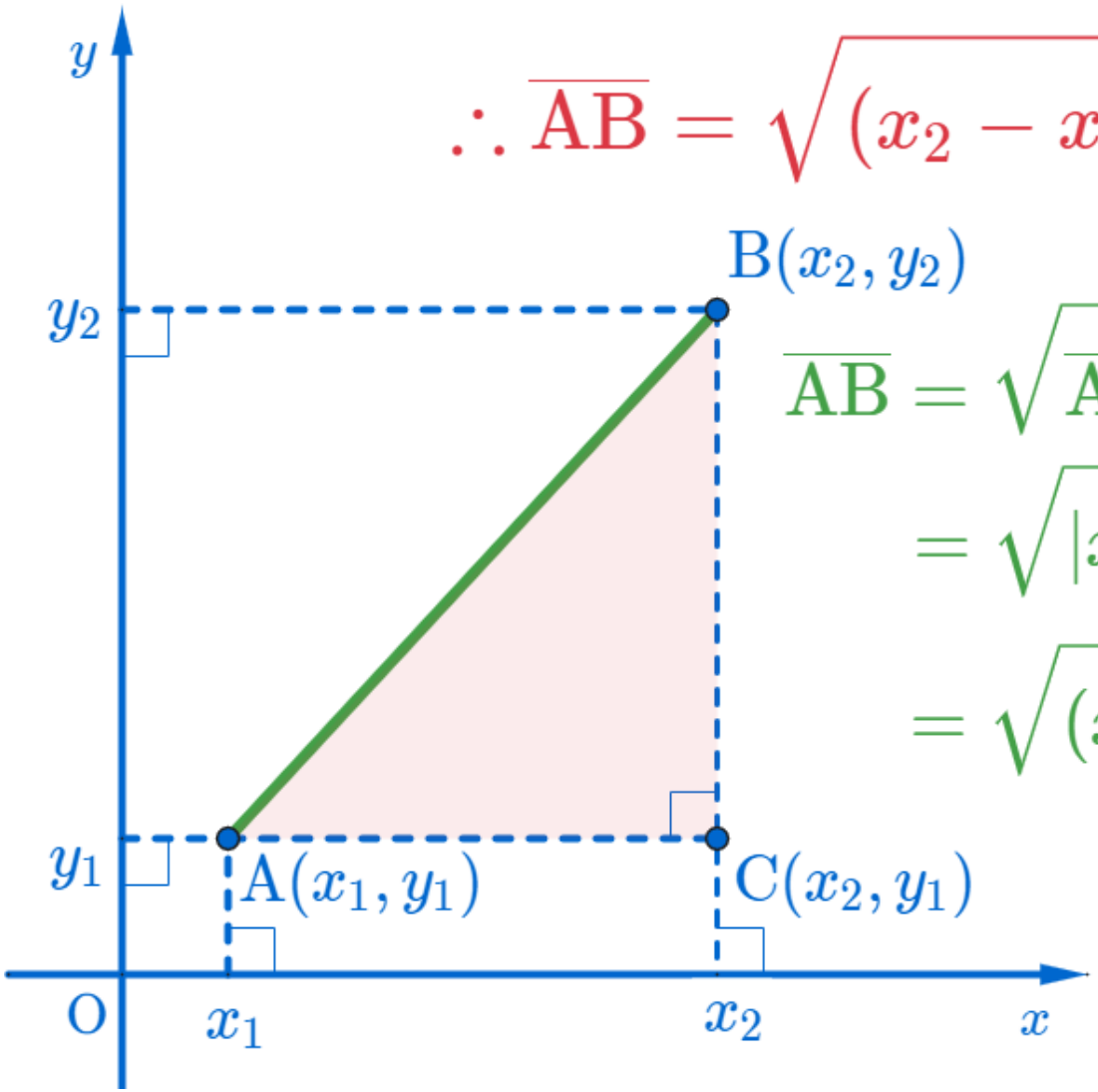
$$= \sqrt{|x_2 - x_1|^2 + |y_2 - y_1|^2}$$



$$\overline{\mathrm{AB}} = \sqrt{\overline{\mathrm{AC}}^2 + \overline{\mathrm{BC}}^2}$$

$$= \sqrt{|x_2 - x_1|^2 + |y_2 - y_1|^2}$$

$$= \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$$



$$\therefore \overline{\mathrm{AB}} = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$$

$$\overline{\mathrm{AB}} = \sqrt{\overline{\mathrm{AC}}^2 + \overline{\mathrm{BC}}^2}$$

$$= \sqrt{|x_2 - x_1|^2 + |y_2 - y_1|^2}$$

$$= \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$$

Github:
https://min7014.github.io/math20210503001.html

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and you can see a picture moving.