

15. The Coordinate Plane

Coordinates (x, y)

x is the position on the X-axis | y is the position on the Y-axis

Find the corresponding positions on the axes, draw perpendicular lines, and the intersection is the point

a) Example: Plotting Points

Plot the following four points:

A_0 $(-3, 0)$ A_1 $(-3, 2)$

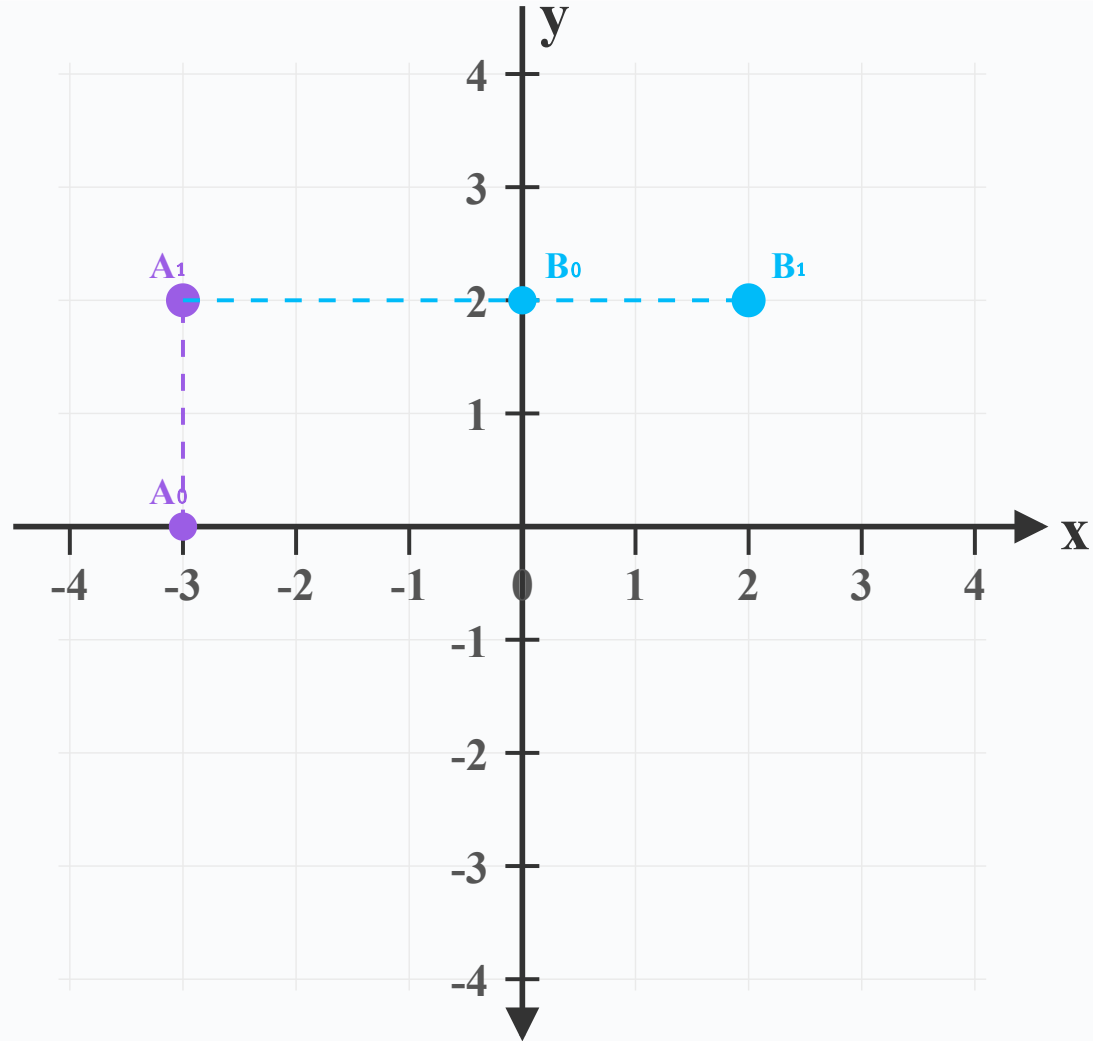
B_0 $(0, 2)$ B_1 $(2, 2)$

Calculate:

Distance from A_1 to B_0 =

Distance from A_0 to B_1 =

Distance from A_1 to B_1 =



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b) Points and Distances

Plot the following four points:

C_0 $(-4, 0)$ C_1 $(-4, -1)$

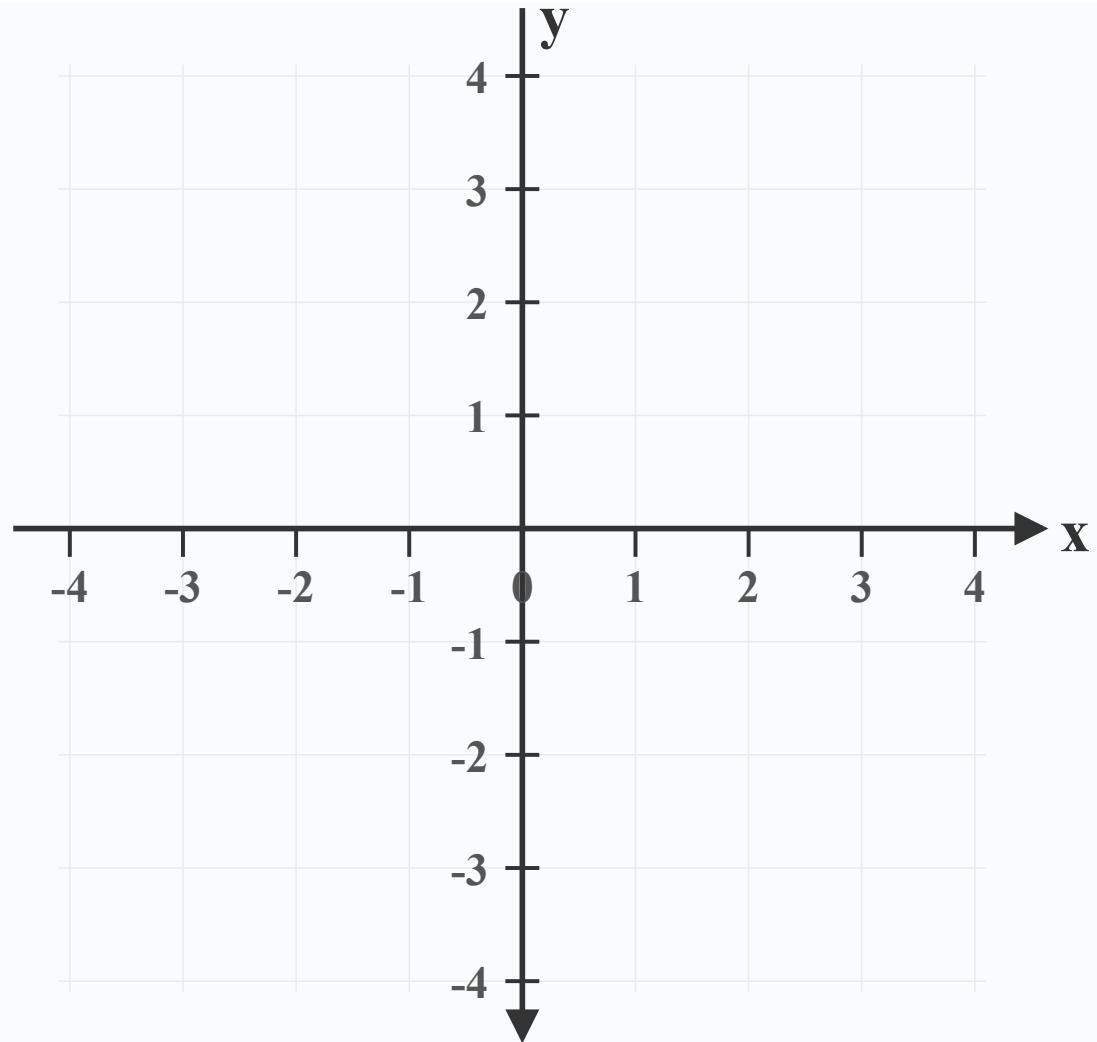
D_0 $(0, -1)$ D_1 $(2, -1)$

Calculate:

Distance from C_1 to D_0 =

Distance from C_0 to D_1 =

Distance from C_1 to D_1 =



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c) Points and Distances

Plot the following four points:

E_0 $(-2, 0)$ E_1 $(-2, 3)$

F_0 $(0, -2)$ F_1 $(-2, -2)$

Calculate:

Distance from E_1 to F_0 =

Distance from E_0 to F_1 =

Distance from E_1 to F_1 =

