

Distance Formula

1.) What is the distance of $\overline{AB}$?

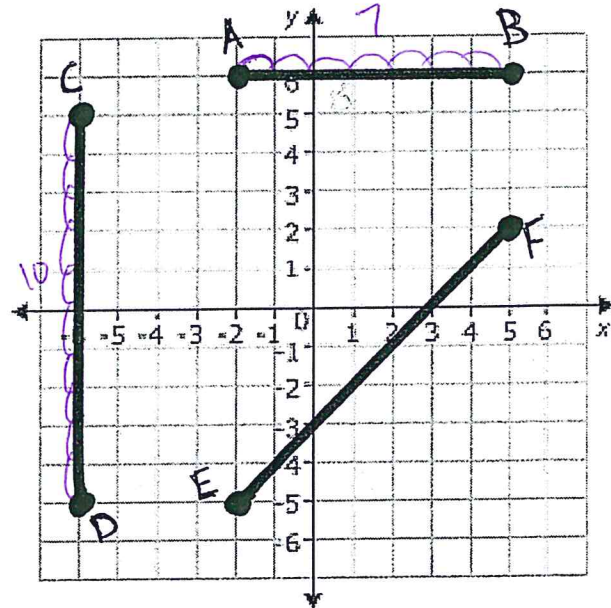
7 units

2.) What is the distance of $\overline{CD}$?

10 Units

3.) What is the distance of $\overline{EF}$?

~~"7 units"~~ Can not "count" diagonal distances.



Distance Formula :

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

$\uparrow$ x's together $\uparrow$ y's together

* Label your points !!

[Points are written (x, y)]

E: (-2, -5) F: (5, 2)
 x_1 y_1 x_2 y_2

$$d = \sqrt{(-2 - 5)^2 + (-5 - 2)^2} = \sqrt{(-7)^2 + (-7)^2} = \sqrt{49 + 49} = \sqrt{98}$$

$$d \approx 9.9 \text{ units}$$