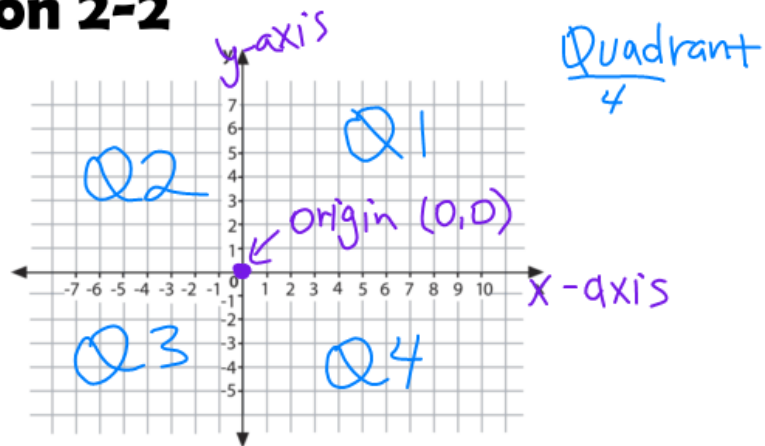
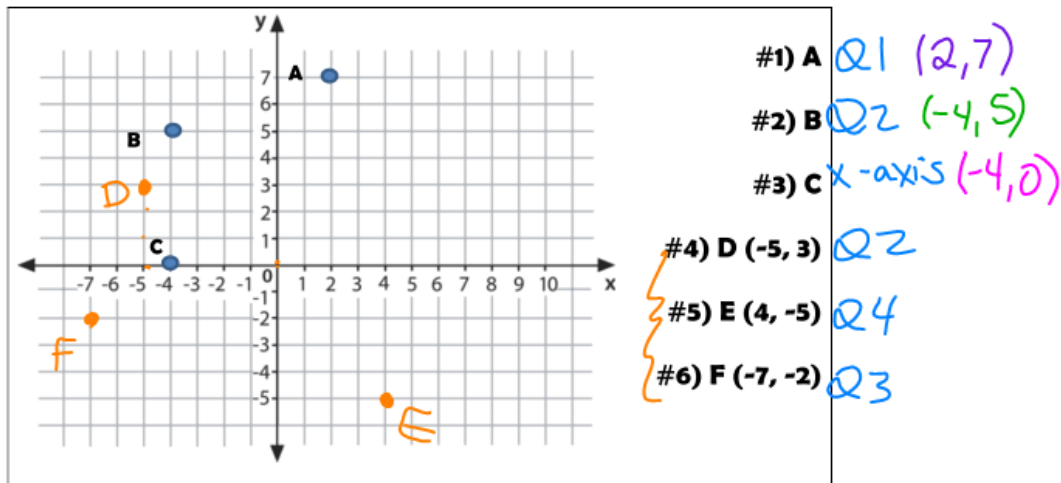


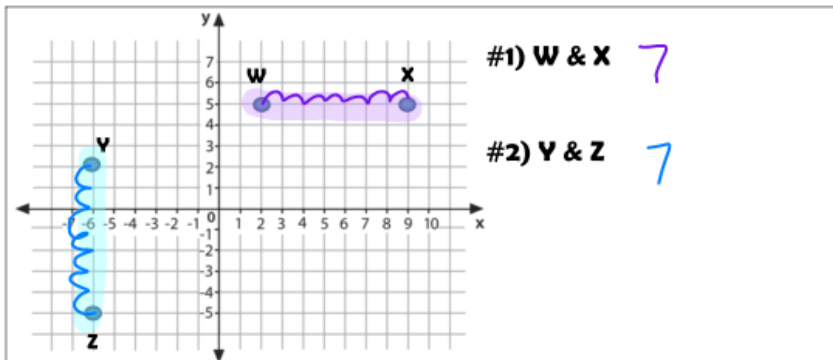
Lesson 2-2



Example 1: Give the coordinates and quadrant of each point.



Example 3: Find the distance between each pair of points.



<i>distance formula</i>	Decode
Definition $ x_2 - x_1 $ horizontal $ y_2 - y_1 $ vertical	Example $(x_1, y_1) = (4, 7)$ $(x_2, y_2) = (4, 9)$ $ 9 - 7 = 2 = 2$

Use the distance formula to prove the distance between W & X and Y & Z.

$W(x_1, y_1) = (2, 5)$ $ 9 - 2 = 7 = 7$ $ 2 - 9 = -7 = 7$	$X(x_2, y_2) = (9, 5)$ $Y(x_1, y_1) = (-6, 3)$ $Z(x_2, y_2) = (-6, -5)$
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$$|-5 - 2| = |-7| = 7$$

$$|2 - (-5)| = |7| = 7$$