# What's the



# Point 2 ?

# What's the Point?
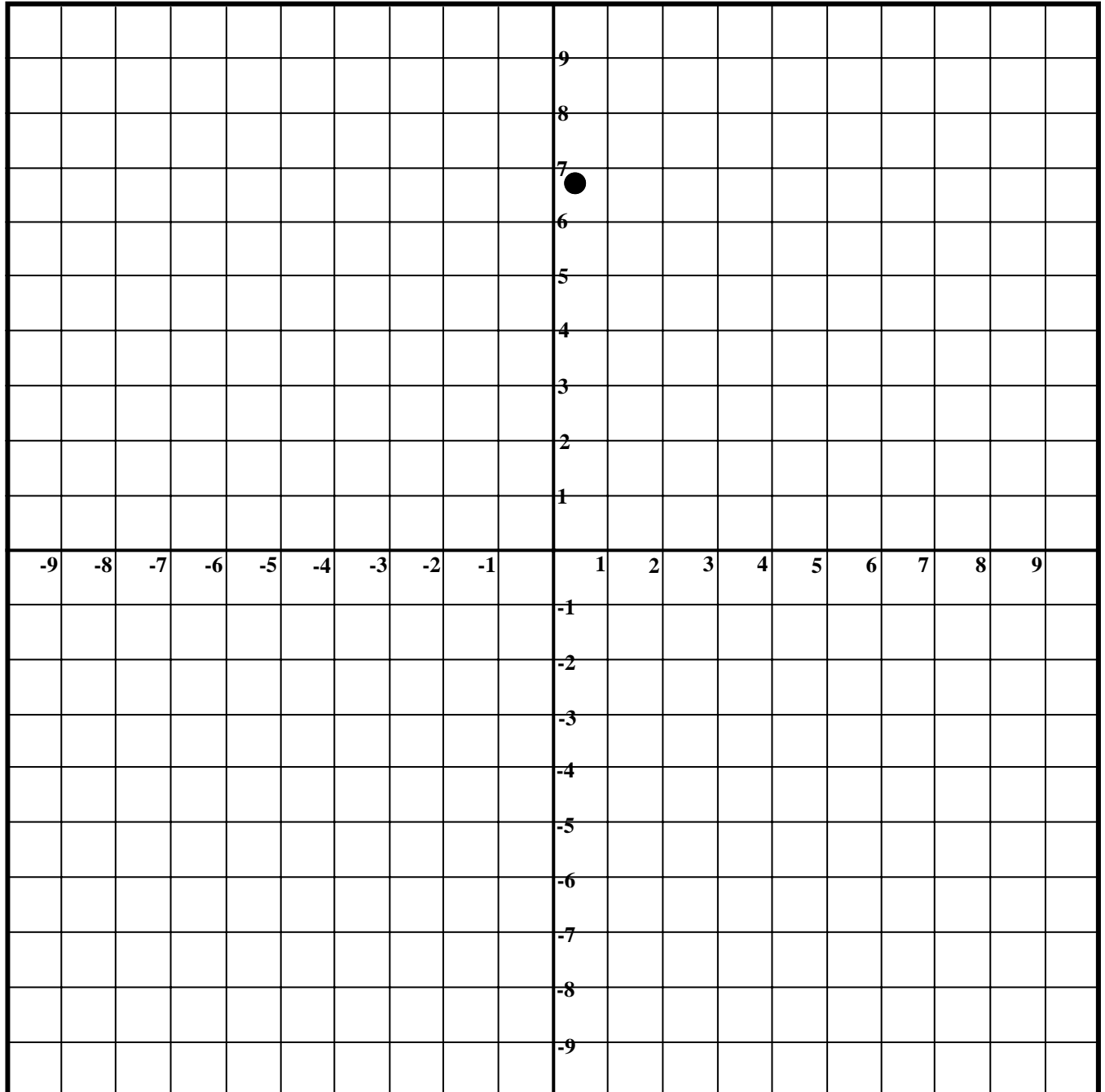
Graph the points and connect them with line segments. Do not connect points with DNC between them.

**Start** (-1,9) (-2,8) (-3,8) (-3,7) (-4,7) (-4,6) (-5,6) (-5,5) (-6,5) (-6,4) (-7,5) (-7,-1) (-6,0) (-6,-2) (-5,-3) (-5,-5) (-4,-6) (-4,-7) (-2,-7) (-2,-8) (0,-8) (0,-7) (1,-7) (1,-6) (2,-6) (2,-5) (3,-4) (3,-3) (2,-2) (0,-2) (0,-4) (1,-3) (1,-4) (0,-6) (-2,-4) (-2,-3) (0,-1) (0,2) (-2,4) (-1,5) (3,5) (3,6) (2,6) (1,7) (1,8) (0,8) (-1,9) DNC (5,-10) (3,-7) (6,-3) (4,2) (5,8) (6,5) (5,2) (7,-3) (5,-7) (6,-10) DNC (7,-10) (6,-6) (9,-1) (9,-3) (7,-6) (8,-10) DNC (-9,-10) (-7,-8) (-9,-3) (-8,-2) (-6,-8) (-7,-10) **End**
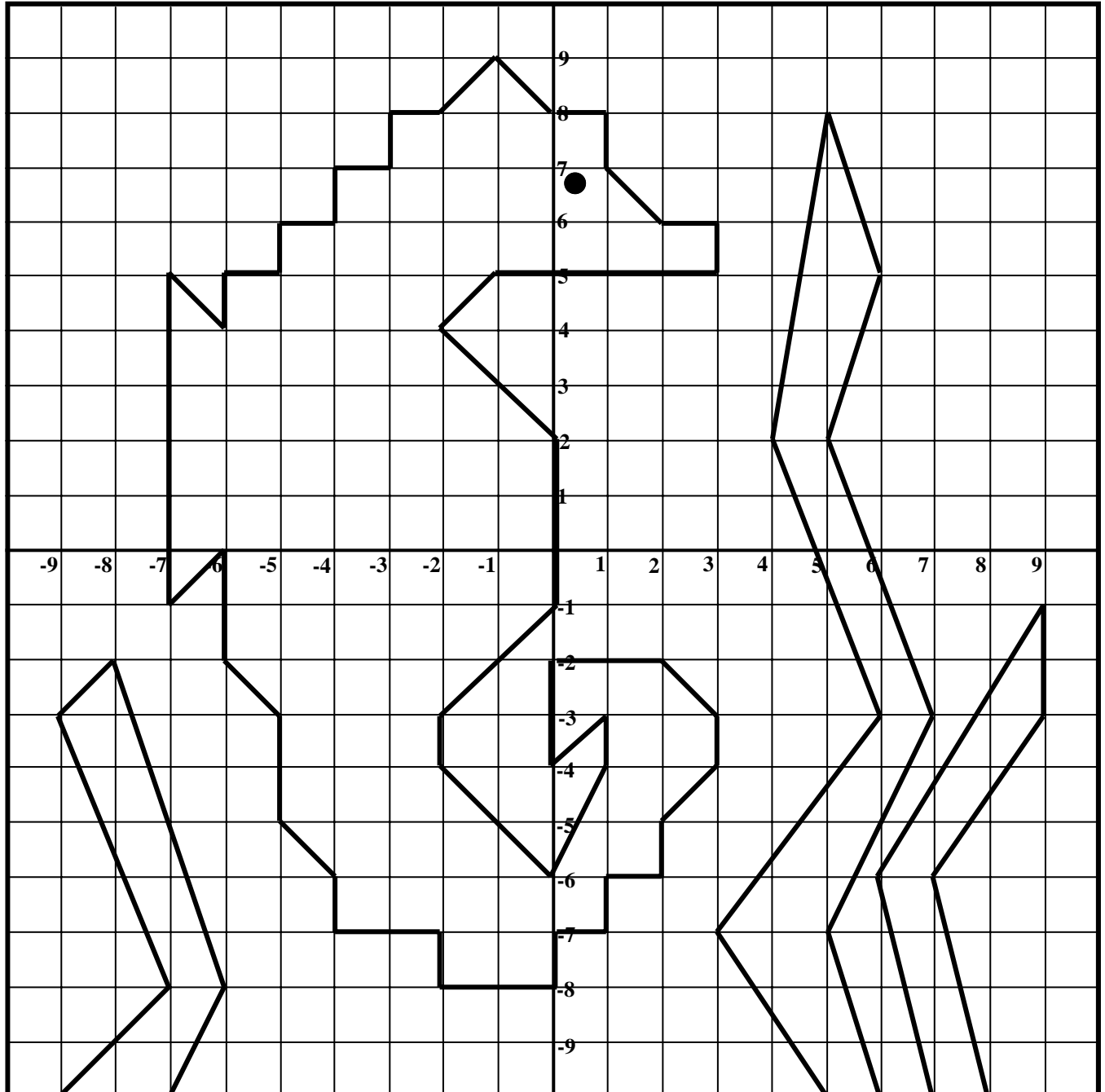
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# What's the Point?

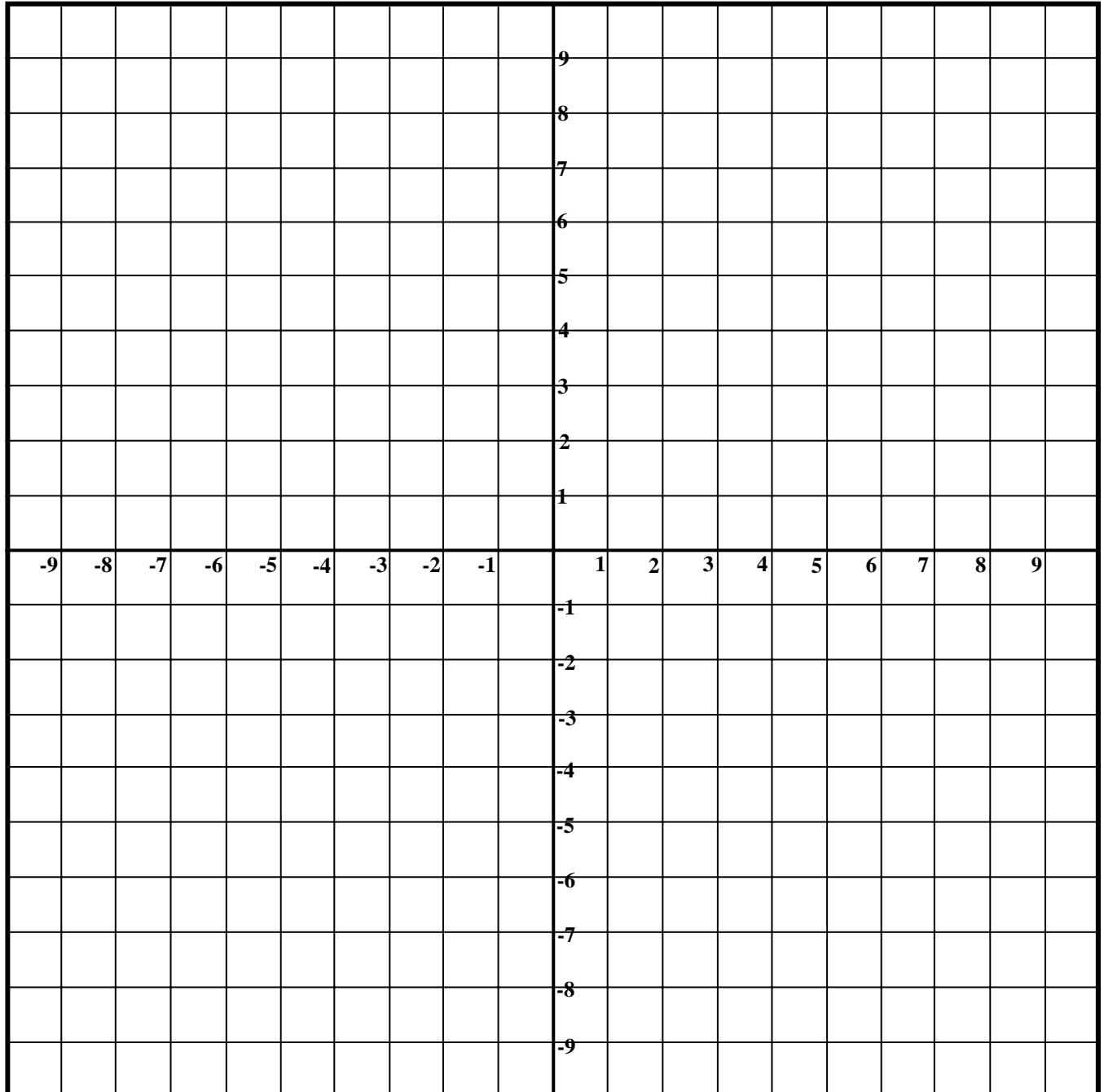Graph the points and connect them with line segments.  Do not connect points with DNC between them.

**Start**_____

_____

_____

_____

_____ **End**

**Lesson Description:** "What's the Point?" is a fun lesson that requires students to graph points (ordered pairs) on the coordinate plane in order to create a picture. The lesson includes four different graphing assignments and answer keys, as well as a template to allow students to create and graph their own pictures using ordered pairs. Students really enjoy this lesson!

**Math Content:** Graphing Ordered Pairs (with possible extension activities in finding the area and perimeter of irregular geometric figures)

**Time Required:** 1 Class Period

**"What's the Point?" includes:**
* 4 "What's the Point?" worksheets
* 4 "What's the Point?" worksheet Answer Keys
* 1 "What's the Point?" Template to create your own (or have students create their own!)
* 2 "What's the Point?" Teacher Tips pages
* 1 "What's the Point?" Cover Sheet                    **12 Pages in all!**

**Materials Needed:** Rulers (to draw line segments when connecting plotted points)

**Suggested Grade Level:** 5th - 8th

**Teacher Testimonial:** As they work through this more advanced version of "connect the dots," the students enjoy trying to figure out what they are creating as they plot the ordered pairs in each quadrant. This lesson provides great practice in plotting points, a skill that is essential for students to have mastered when they graph equations and inequalities. It is also a terrific place to introduce mathematical vocabulary terms such as coordinate plane, origin, ordered pair, x-coordinate, y-coordinate, x-axis, y-axis, and quadrant.

**Teacher Tips:**

* The "What's the Point?" lesson is a great opportunity to introduce or review many mathematical terms including those listed above in the Teacher Testimonial.
* Have the students cross out each ordered pair as they graph it. This keeps students from losing their place when they are working.
* Have the students color their finished assignments and then post them to create a colorful, mathematical bulletin board.
* There are points to be graphed in this lesson that include decimals. Most of them include the decimal .5 and should clearly be graphed in the exact middle of two lines.
* Consider giving a few extra credit points to students who create an original graphed picture.

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