NAME\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_DATE\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_PERIOD\_\_\_\_\_\_\_\_\_

**8.1 – GRAPHING SYSTEMS OF EQUATIONS**

1. **Explain** what it means to *solve* a system of equations.
2. **Sketch** the graph of a linear system that has *no* solution.



**•**

**•**

**•**

**•**

Use the graphs at the right to determine whether each

system has *one* solution, *no* solution, or *infinitely many*

solutions. If the system has one solution, name it.

 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

State whether the given ordered pair is a solution to the system. Show all work and write *yes* or *no*.

1. 7.

Graph each system of equations. Then determine whether the system has *one* solution, *no* solution, or *infinitely many* solutions. If the system has one solution, name it.

 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_



 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_



1.

 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_



1.

 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_



1.

 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_





1.



 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

