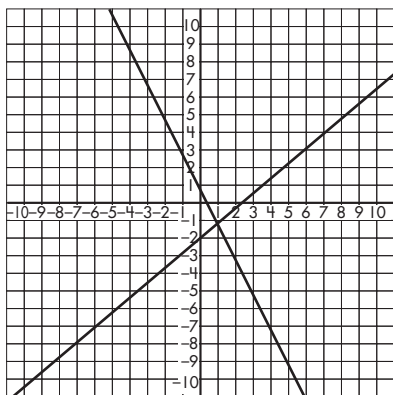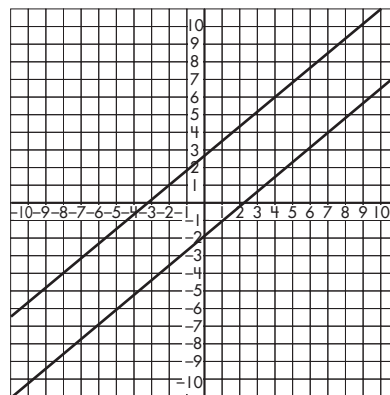# Lesson 3.6 Understanding Linear Equation Systems

A **system of linear equations** is a set of equations that have the same variables. Graphing the solutions of the equations results in a set of lines in the coordinate plane. If the lines intersect at a single point, that point represents the one ordered pair that satisfies the equation.

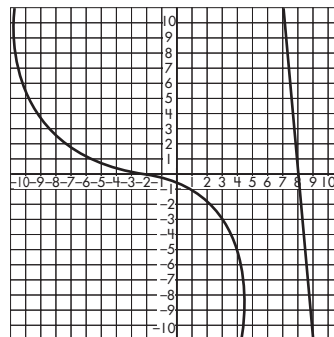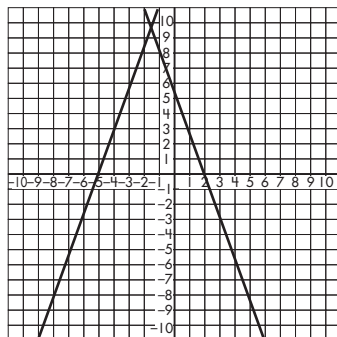This represents a system because the lines intersect.

This is not a system because the lines do not intersect.

Tell if each graph represents a system of linear equations by writing *yes* or *no*.

| | **a** | **b** |

1.

_____   _____

2.

_____   _____