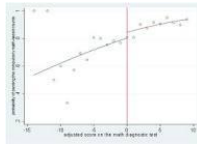


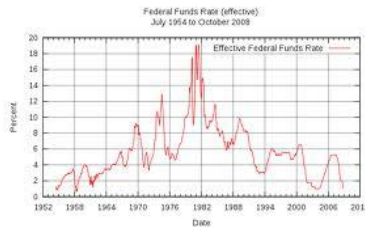
Chapter 7 Vocab

Consistent: A system of equations that has at least one ordered pair that satisfies both

equations.



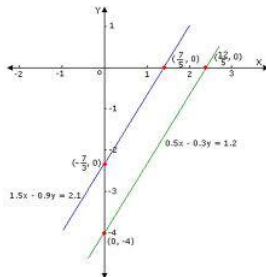
Dependent: A system of equations that has an infinite number of solutions.



Elimination: the use of addition or subtraction to eliminate one variable and solve a system of equations.

$$\begin{array}{rcl}
 y = x + 1 & y = -x & \\
 + y = x + 1 & & \\
 + y = -x & & \\
 \hline
 2y = 1 & \text{Eliminate X} & \\
 y = \frac{1}{2} & & \\
 \downarrow & & \\
 y = -x & \text{Substitute} & \\
 -\frac{1}{2} = x & & \\
 \text{Solution}(-\frac{1}{2}, \frac{1}{2}) & &
 \end{array}$$

Inconsistent: A system of equations with no ordered pair that satisfy both equations.



Independent: A system of equations with exactly one solution.

