8.5 Systems of Equations Solving by Graphing

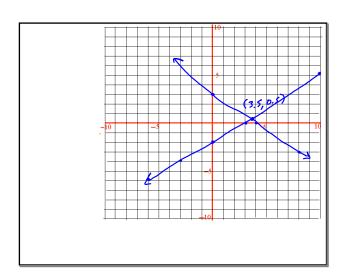
System of Equations
A group of Lormare
equations

2x13y=5
3x-4y=12

Solution to a system
is a point
The point is where the
two lines intersect
Parellel lines don't Intersect
Same line multiple Points

2x-3y=6 x-int=3 y-int=-2

8x + 4y = 12 x - ix + = 4y - ix + = 3



Algebra recall

How de we know

two lines are parallel $y = m_1 x + b_1$ $y = m_2 x + b_2$ $b_1 \neq b_2$

$$y = -2x + 3$$

$$y = -2x + 9$$

$$y = 2x - 3$$

$$y = -2x + 5$$

$$3x - y = 6$$
 $6x - 2y = 2$
 $3x - y = 6$
 $6x - 2y = 2$
 $3x - y = 6$
 $-6x - 2y = 2$
 $-6x - 2y =$