Slide 1
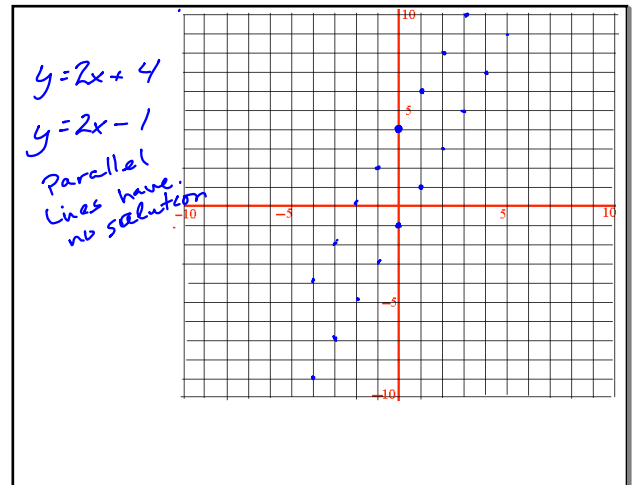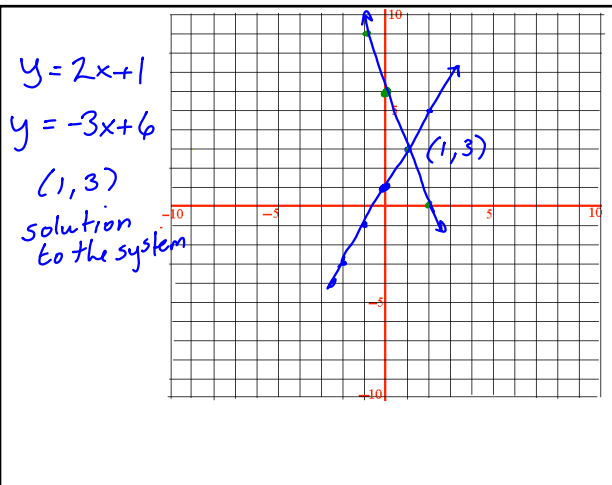
3.1   Systems of Equations

Focus on any points of intersection

Slide 2

Graphing Review

$y = 2x + 1$

slope   y-int
$\uparrow 2 \to 1$
$\downarrow 2 \leftarrow 1$

Slide 3

$y = 2x + 1$
$y = -3x + 6$
$(1, 3)$
solution to the system

$(1, 3)$

Slide 4

$y = 2x + 4$
$y = 2x - 1$

Parallel lines have no solution

Slide 5

Inequalities

1. $<, >$ dashed
    $\leq, \geq$ solid line

2. Where do we shade
    $\to$ test point $(0,0)$
    shade where true

Slide 6

$y \geq \frac{1}{2}x - 2$
$y \geq -2x + 2$

$y \geq 0$

$x > 0$

$y \leq -\frac{2}{3}x + 7$

$y \leq -\frac{4}{3}x + 10$

$y \leq 2x + 5$

$y \geq -2x + 0$

$y \geq 0$

$y \leq 5$

Parallelogram