

Answers Sheet

Inequalities Regions

1. $m = \text{rise/run}$ (slope or gradient)

$$x \leq 3$$

$$y \geq -3$$

$$y \leq 2x$$

2.

$$y \geq -3$$

$$c = 3, m = 2$$

$$y \leq 2x + 3$$

$$c = 0, m = -2$$

$$y \leq -2x$$

3.

$$y \geq -4$$

$$y \leq x - 2$$

$$y \leq -2x + 4$$

4.

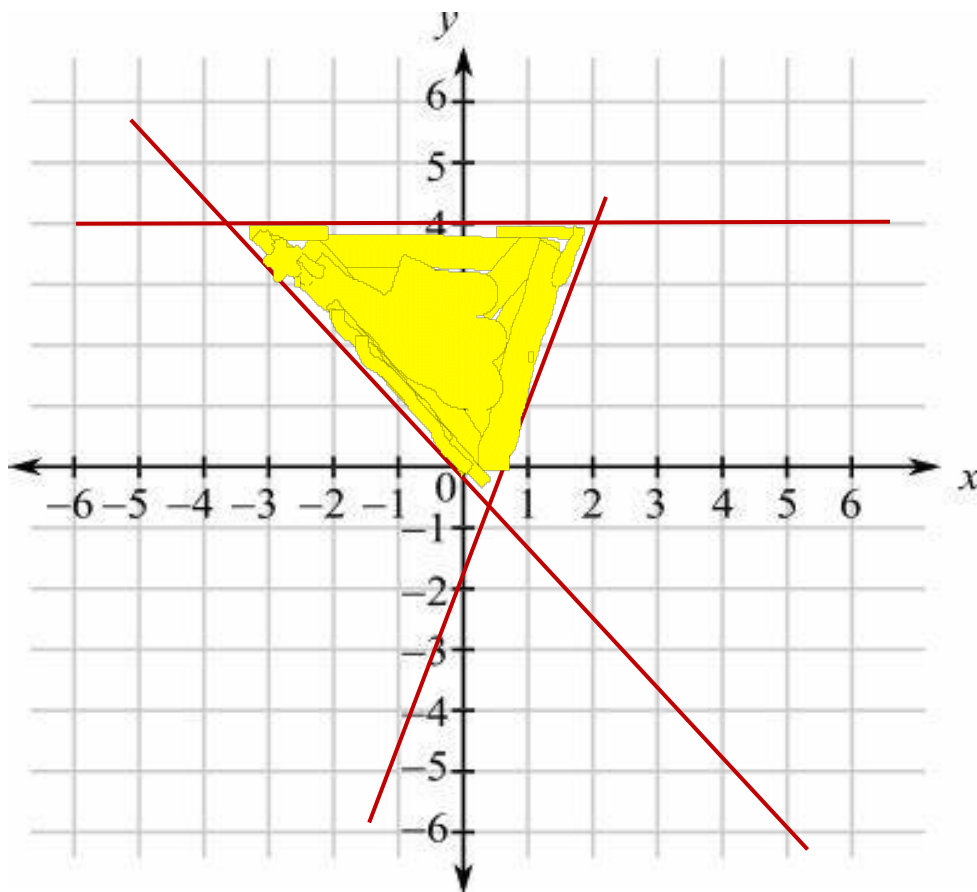
$$y < 4$$

$$y \geq -x$$

x	0	1	2
y	0	-1	-2

$$y \geq 3x - 2$$

x	0	1	2
y	-2	1	4



5.

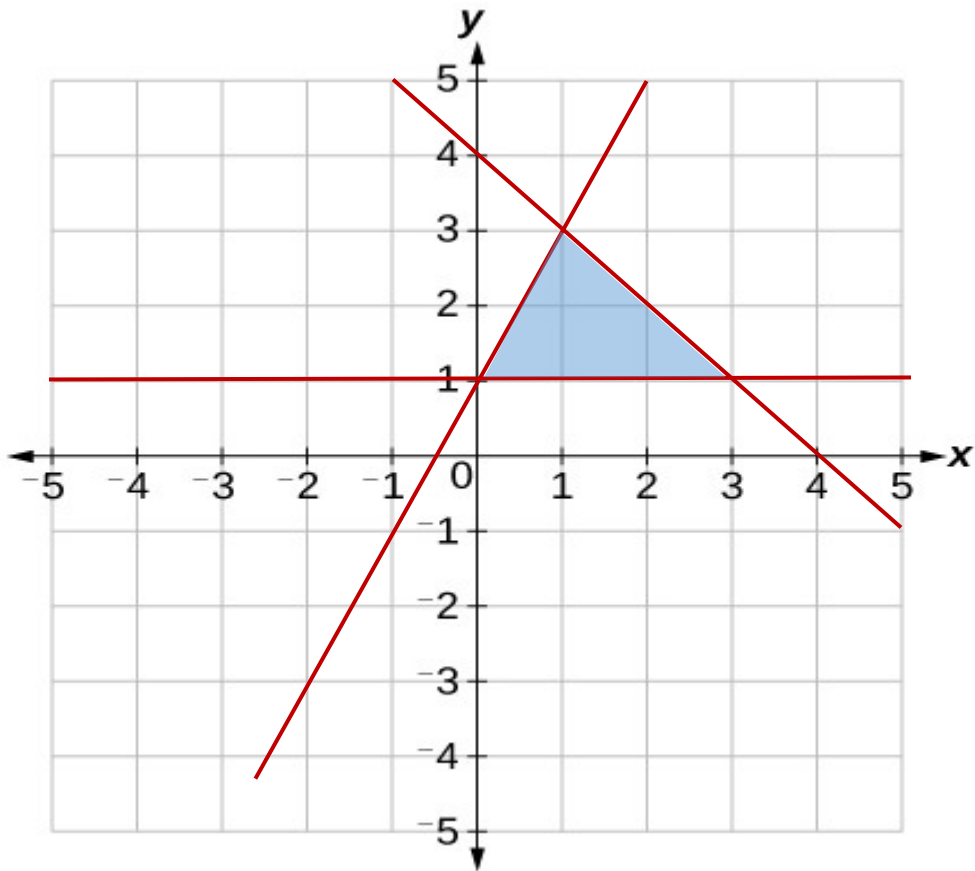
$$y \geq 1$$

$$y \leq 4 - x$$

x	0	1	2
y	4	3	2

$$y \leq 2x + 1$$

x	0	1	2
y	1	3	5



6.

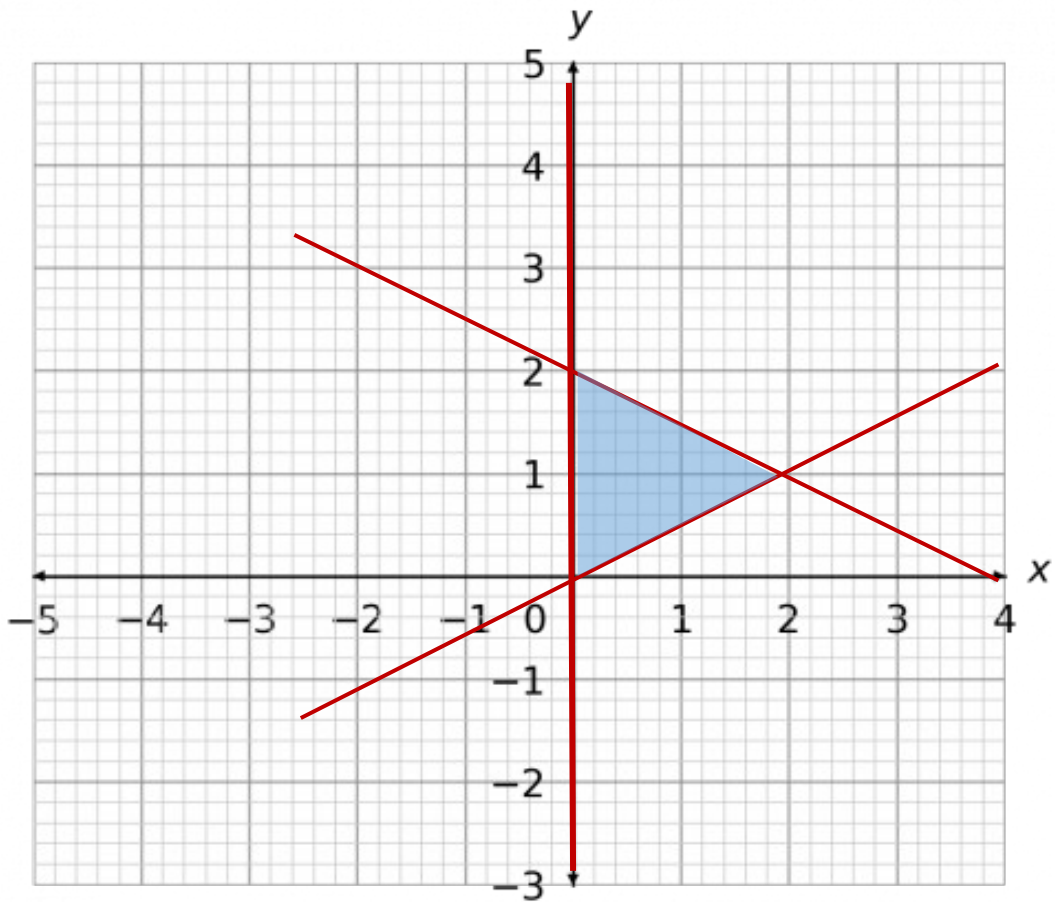
$$x > 0$$

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

x	0	1	2
y	0	1/2	1

$$x + 2y < 4$$

x	0	1	2
y	2	1.5	1



7. $y \leq x - 2$

x	0	1	2
y	-2	-1	0

$y \leq -2x + 4$

x	0	1	2
y	4	2	0

$y \geq -4$

