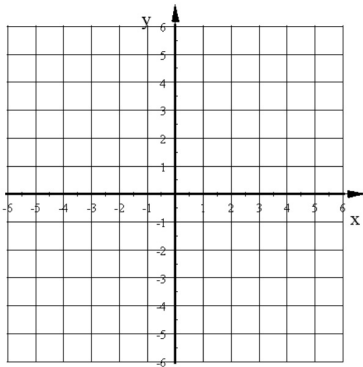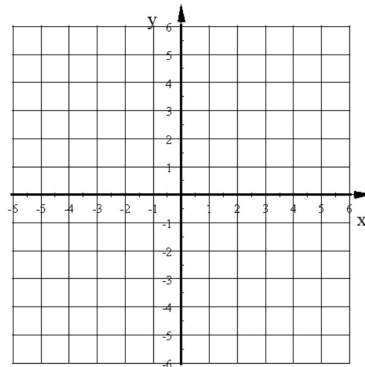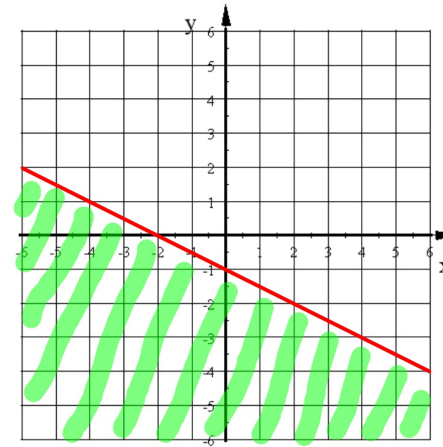Graph each inequality.

1. $y \geq 2$
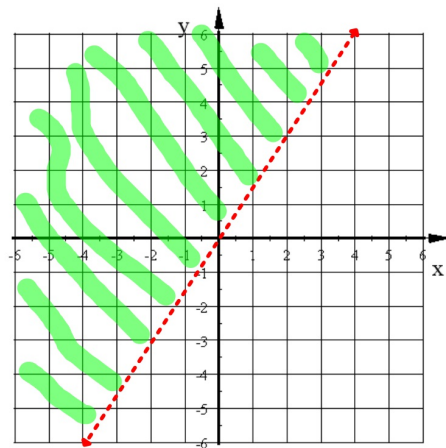
2. $-8x + 12 > 36$

Write the equation of this inequality.

Write the equation of this inequality.

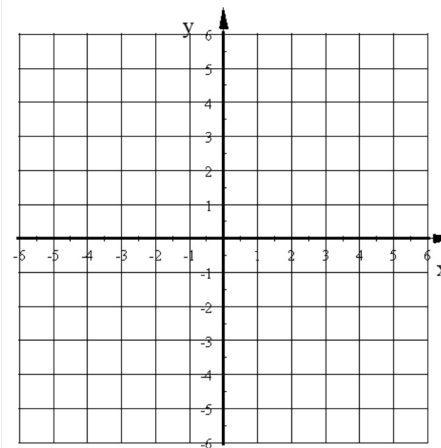Graph these two inequalities on the same graph.

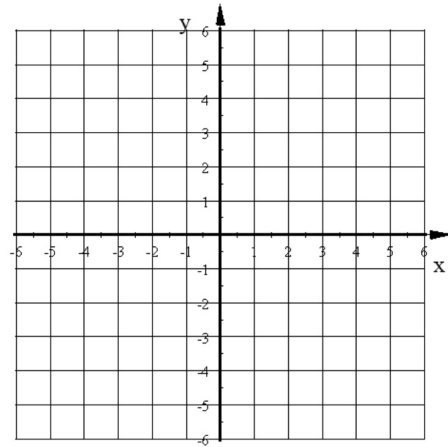$y < -2x + 1$ $8x - 6y \geq 24$

System of Inequalities:

Solution to a system of Inequalities
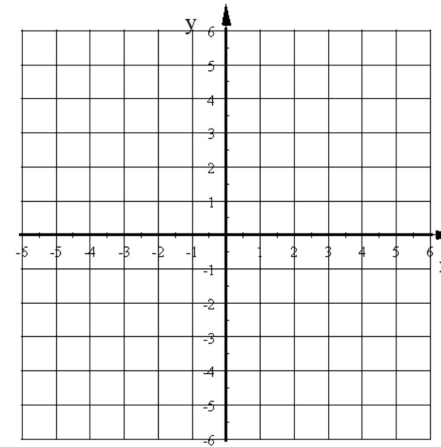
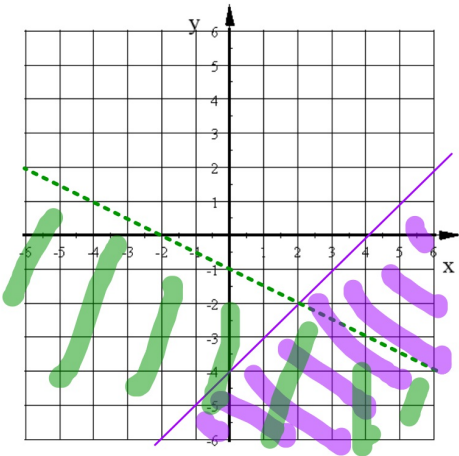Graph this system of inequalities

$y \leq -2x + 3$

$3x + 15y > 15$

Graph this system of inequalities

$y > 0.5x$ $4x - 8y \geq 16$

Model this graph with a system of inequalities.

Is (-4, 3) a solution to this system of inequalities?

$y > 2x + 5$

$2x + 2y > 3$

Basketballs cost $24 each and footballs cost $18 each.
You can spend no more than $144.
You need at least 3 basketballs.

1. Write a system of inequalities to model this situation.

2. Graph this system of inequalities.

3. Find as many combinations of basketballs and footballs that meet both conditions.
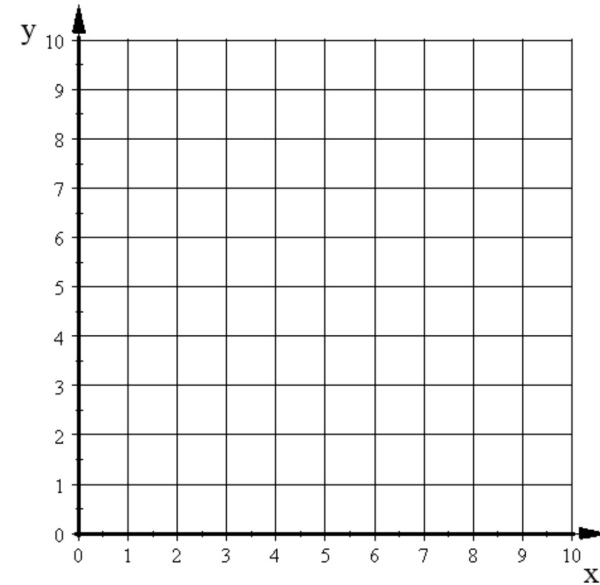
You can spend no more than $96 at the store on CD's and DVD's. CD's cost $12 each and DVD's cost $16 each.

a) Model this situation with an inequality

b) Graph the inequality.

c) Find 3 combinations of CD's and DVD's that meet the given conditions.

d) How many possible combinations of CD's and DVD's are there that meet the given conditions