Concepts Related to Straight Lines

the slope of a line through two points

slope-intercept form

point-slope form

vertical line

horizontal line

parallel lines have _____ slopes

Perpendicular lines have _____ slopes

A straight line separates a plane into two half-planes. The points on one side of the line are in one of the half-planes and the points on the other side of the line are in the other half-plane.

_____- The line itself

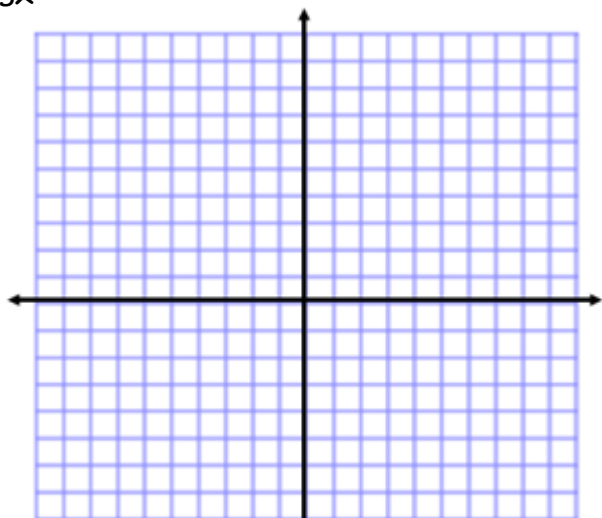-If the boundary line is included, then the half-plane is said to be closed.

-If the boundary line is not included, then the half-plane is said to be open.

_____ or _____ means the line is solid (included)

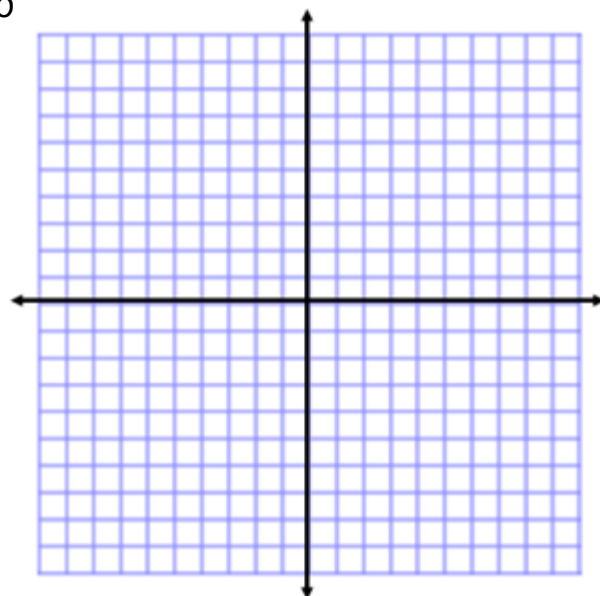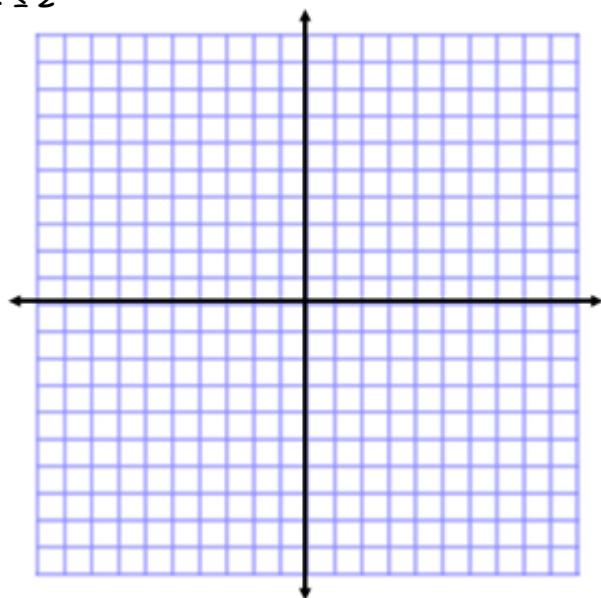_____ or _____ means the line is dashed (not included)
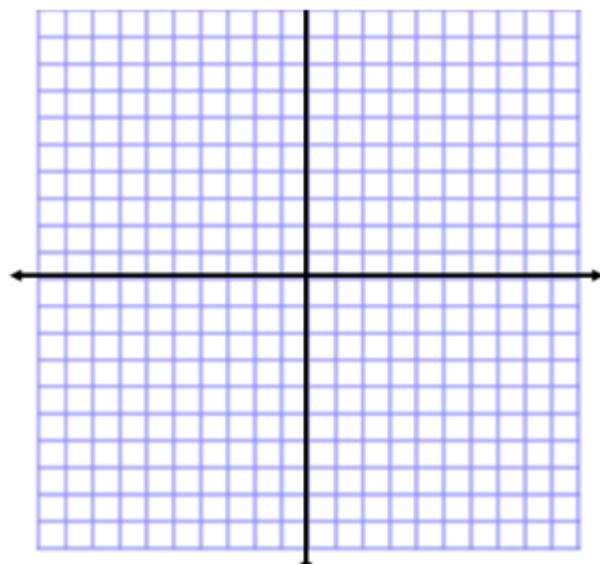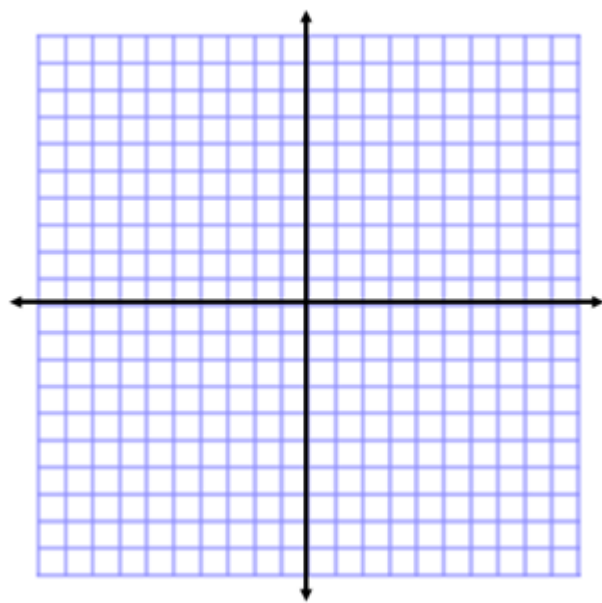
Graph the following:
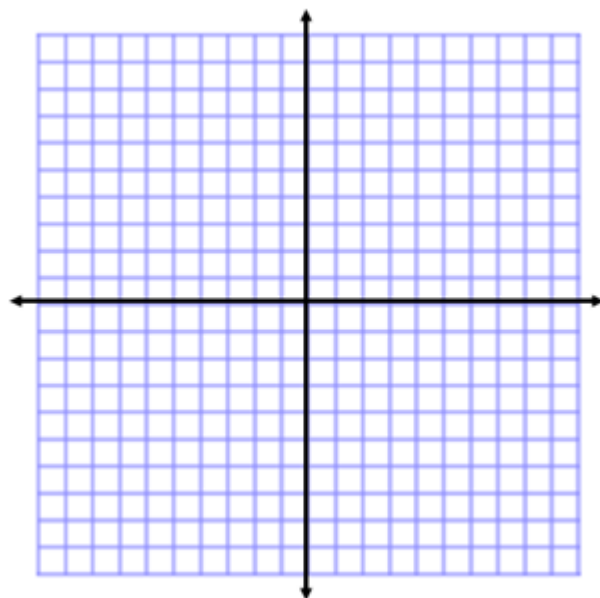
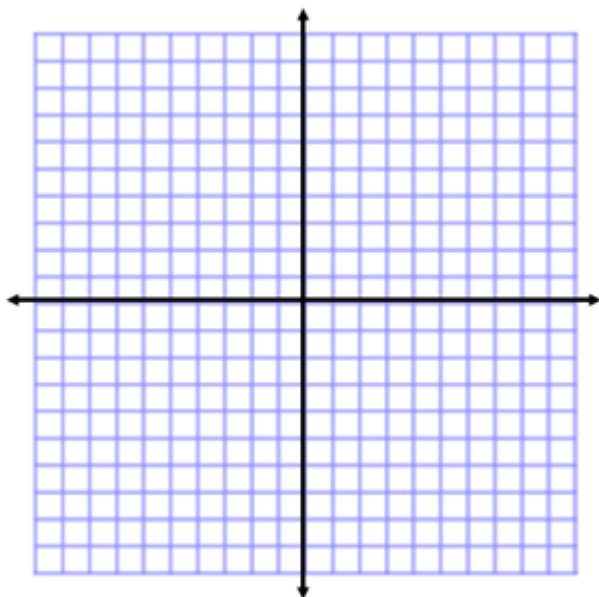a) $y > 3x$

b) $x - y > 0$
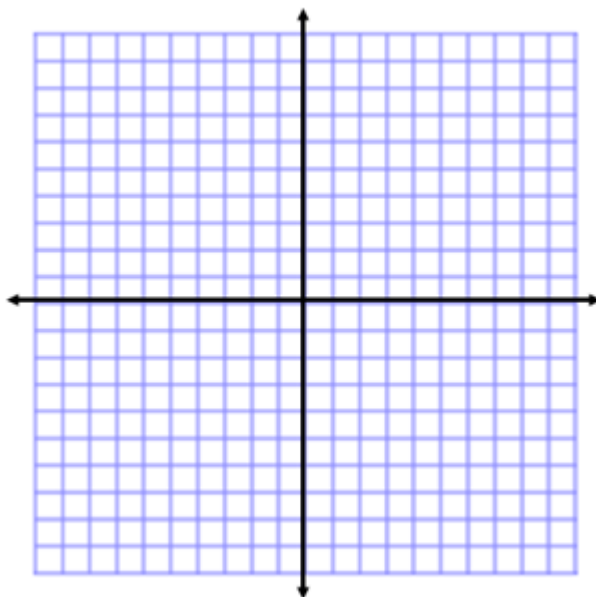
C) $2y - x \leq 2$

d) $4x + 2y \geq 10$

e) $y \geq x + 1$

f) $y > 2/3\,x - 3$

g) y ≤ 2

h) x + 3y > 3y + 3