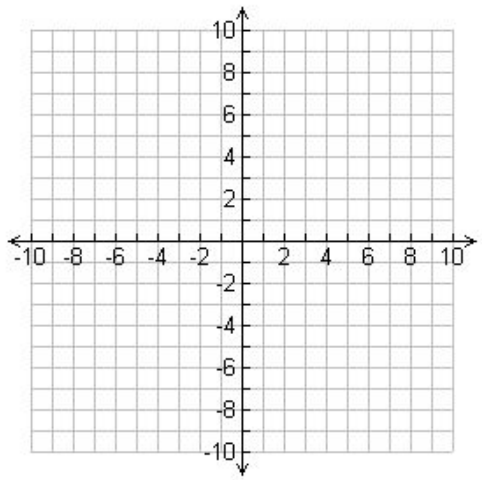
1. Graph the following systems of inequalities

a.

$x \geq 5$

$x + y \leq 3$



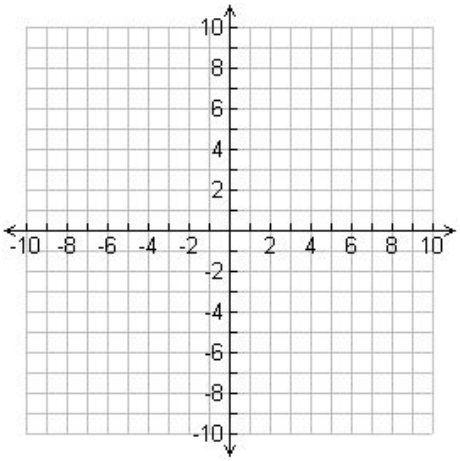
Is (5, −2) a solution to the system?

Is (51, −96) a solution to the system?

b.

$4x + 5y > -20$

$4x + 5y > 10$



What would be the solution to:

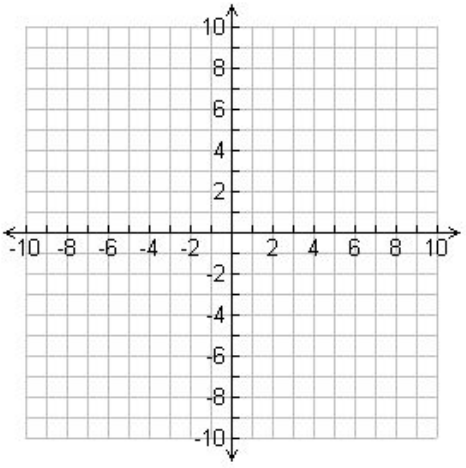
$4x + 5y < -20$

$4x + 5y > 10$

c.

$|y| \leq 3$

$y > -|x| + 2$

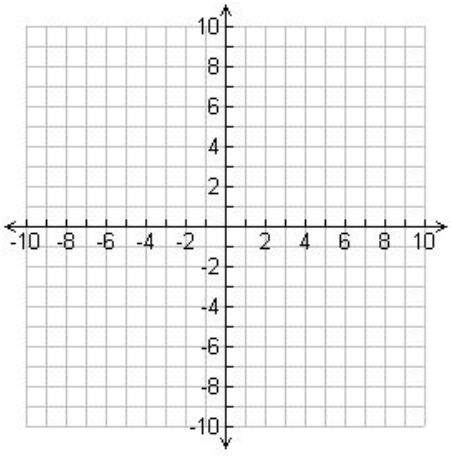


d.

$x - y \leq 7$

$x + y < 7$

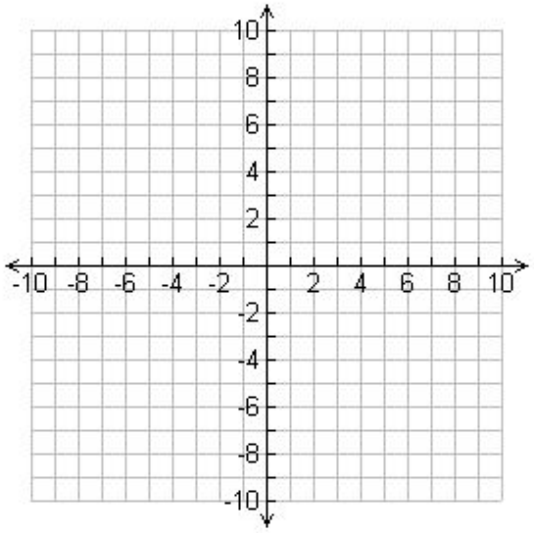
$x > 2$



e.

$y < 4 - x^2$

$x < y - 1$

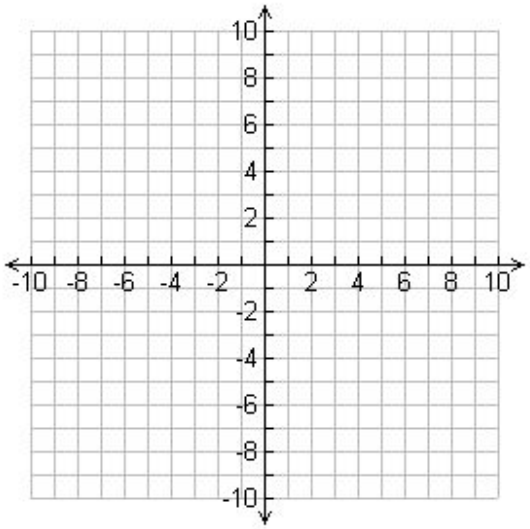


f.

$|y| \le 1$

$x \ge 0$

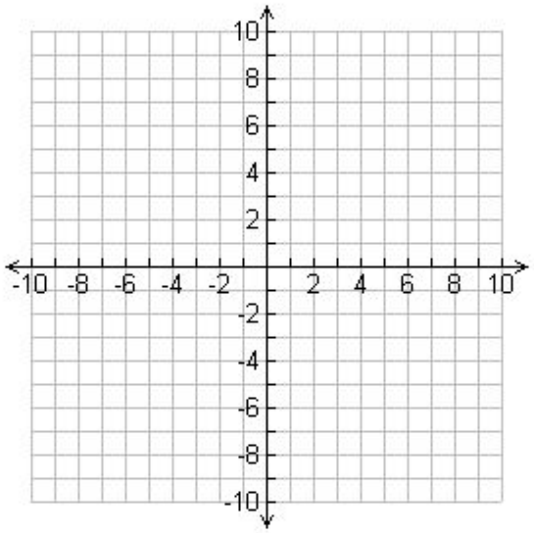
$y > 2|x| + 1$



g.

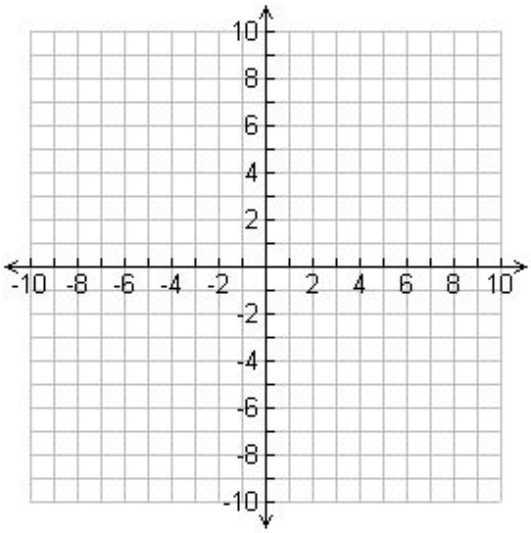
$y > |x + 2|$

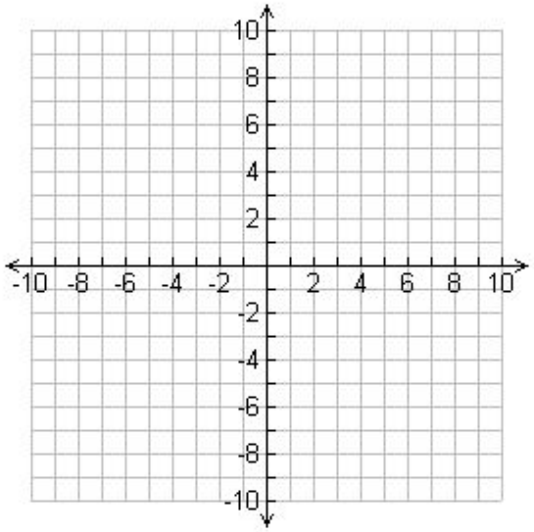
$y \le 2x + 10$



h.

$y > \sqrt{x + 1}$



i.

$y < \sqrt{x+4} - 2$