

These equations can be rewritten as  $y = -x + 10$  and  $y = x + 4$ , and are shown in the graph. Their point of intersection is  $(3, 7)$ . This is the solution to the system because the values  $x = 3$  and  $y = 7$  make both equations true:  $3 + 7 = 10$  and  $3 - 7 = -4$ .