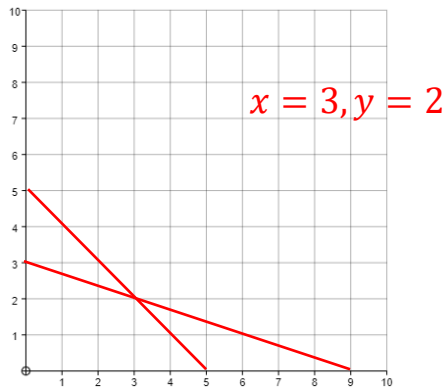


## Solving Simultaneous Equations Graphically

**(a)**

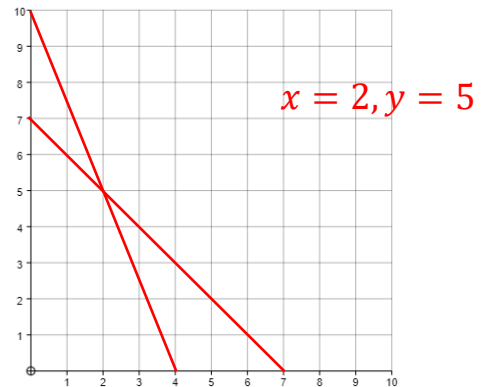
Plot the graphs of  
 $x + y = 5$  and  $x + 3y = 9$



Find the solution to the simultaneous equations  $x + y = 5$  and  $x + 3y = 9$

**(b)**

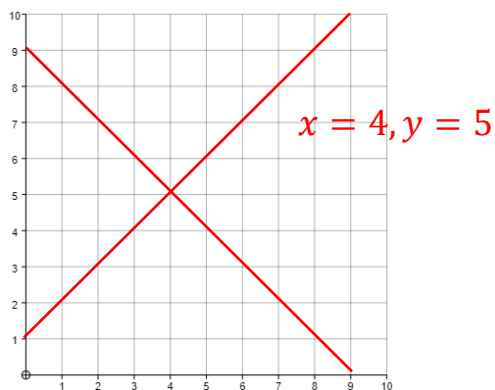
Plot the graphs of  
 $x + y = 7$  and  $5x + 2y = 20$



Find the solution to the simultaneous equations  $x + y = 7$  and  $5x + 2y = 20$

**(c)**

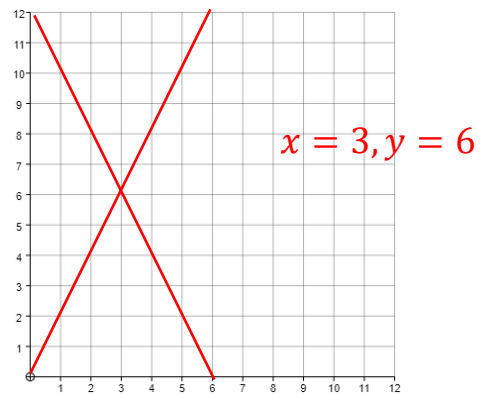
Plot the graphs of  
 $y = x + 1$  and  $x + y = 9$



Find the solution to the simultaneous equations  $y = x + 1$  and  $x + y = 9$

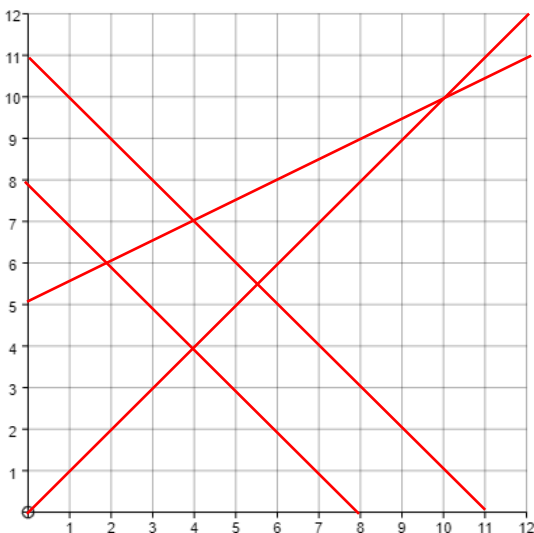
**(d)**

Plot the graphs of  
 $y = 2x$  and  $2x + y = 12$



Find the solution to the simultaneous equations  $y = 2x$  and  $2x + y = 12$

**(e)**



Plot the graphs of  $x + y = 8$ ,  $y = x$ ,  $y = \frac{1}{2}x + 5$   
 and  $x + y = 11$

Use the graphs to find the solutions of the simultaneous equations:

(i)  $x + y = 8$  and  $y = x$   
 $x = 4, y = 4$

(ii)  $x + y = 8$  and  $y = \frac{1}{2}x + 5$   
 $x = 2, y = 6$

(iii)  $y = x$  and  $x + y = 11$   
 $x = 5.5, y = 5.5$