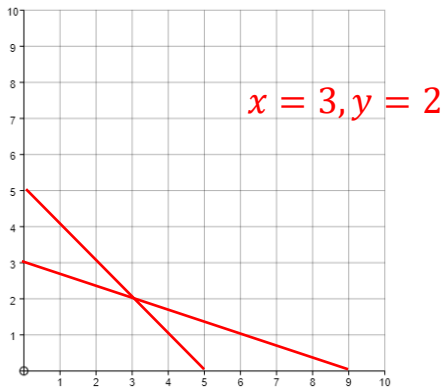


Solving Simultaneous Equations Graphically

(a)

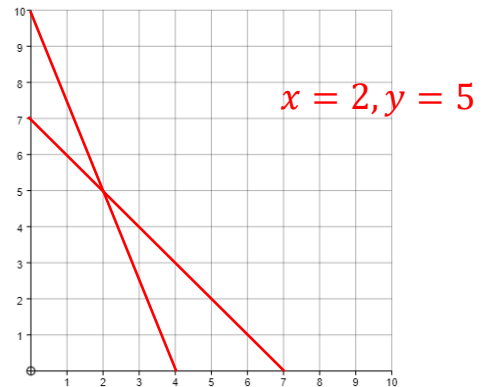
Plot the graphs of
 $x + y = 5$ and $x + 3y = 9$



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

(b)

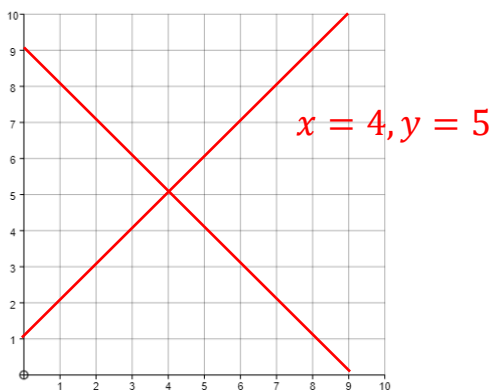
Plot the graphs of
 $x + y = 7$ and $5x + 2y = 20$



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

(c)

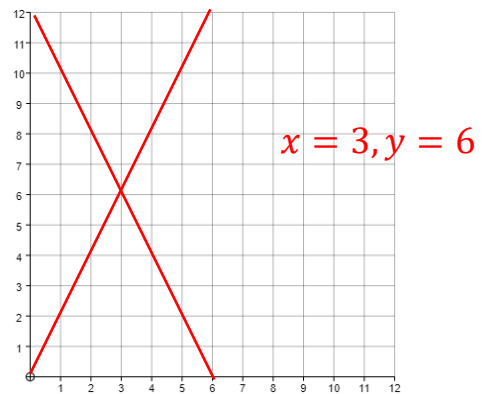
Plot the graphs of
 $y = x + 1$ and $x + y = 9$



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

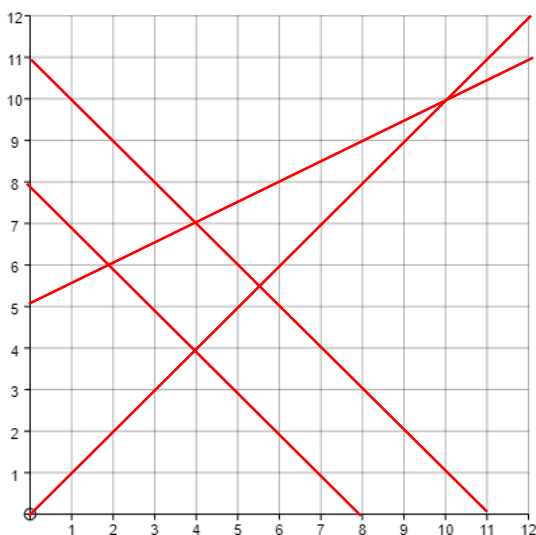
(d)

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 $x + y = 11$

$x = 5.5, y = 5.5$